

**BGA**

| Part Number          | BV <sub>DSS</sub><br>Min. (V) | Config.                    | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |       |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|----------------------|-------------------------------|----------------------------|-------------------------------------------------|---------|-------|------|---------------------------------------|--------------------|--------------------|
|                      |                               |                            | 10V                                             | 4.5V    | 2.5V  | 1.8V |                                       |                    |                    |
| <b>BGA N-Channel</b> |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| 1.5x1.5 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ298N              | 20                            | Single                     | –                                               | 0.027   | 0.039 | –    | 7                                     | 6                  | 1.7                |
| 2.0x2.0 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ203N              | 20                            | Single                     | –                                               | 0.018   | 0.03  | –    | 11                                    | 7.5                | 1.6                |
| 2.0x2.5 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ201N              | 20                            | Single                     | –                                               | 0.018   | 0.03  | –    | 11                                    | 9                  | 2                  |
| FDZ209N              | 60                            | Single                     | –                                               | 0.08@5V | –     | –    | 6.3                                   | 4                  | 2                  |
| 2.5x4.0 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ2553N             | 20                            | Monolithic<br>Common Drain | –                                               | 0.014   | 0.02  | –    | 12                                    | 9.6                | 2.1                |
| FDZ2553NZ            | 20                            | Monolithic<br>Common Drain | –                                               | 0.014   | 0.02  | –    | 13                                    | 9.6                | 2.1                |
| FDZ2551N             | 20                            | Monolithic<br>Common Drain | –                                               | 0.018   | 0.03  | –    | 11                                    | 9                  | 2.1                |
| 3.5x4.0 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ7064N             | 30                            | Single                     | 0.007                                           | 0.008   | –     | –    | 31                                    | 13.5               | 2.2                |
| FDZ7064S             | 30                            | SyncFET                    | 0.0072                                          | 0.0088  | –     | –    | 25                                    | 13.5               | 2.2                |
| 5.0x5.5 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ5047N             | 30                            | Single                     | 0.0029                                          | 0.0045  | –     | –    | 52                                    | 22                 | 2.8                |
| <b>BGA P-Channel</b> |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| 1.5x1.5 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ299P              | -20                           | Single                     | –                                               | 0.055   | 0.08  | –    | 6.6                                   | 4.6                | 1.7                |
| 2.0x2.0 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ204P              | -20                           | Single                     | –                                               | 0.045   | 0.075 | –    | 9                                     | 4.5                | 1.8                |
| 2.0x2.5 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ202P              | -20                           | Single                     | –                                               | 0.045   | 0.075 | –    | 9                                     | 5.5                | 2                  |
| 2.5x4.0 mm           |                               |                            |                                                 |         |       |      |                                       |                    |                    |
| FDZ2554P             | -20                           | Monolithic<br>Common Drain | –                                               | 0.028   | 0.045 | –    | 14                                    | 6.5                | 2.1                |
| FDZ2554PZ            | -20                           | Monolithic<br>Common Drain | –                                               | 0.028   | 0.045 | –    | 15                                    | 6.5                | 2.1                |
| FDZ2552P             | -20                           | Monolithic<br>Common Drain | –                                               | 0.045   | 0.075 | –    | 9                                     | 5.5                | 2.1                |

**BGA (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |        |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|--------|--------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V   | 2.5V   | 1.8V |                                                   |                    |                    |
| 3.5x4.0 mm  |                               |         |                                                 |        |        |      |                                                   |                    |                    |
| FDZ208P     | -30                           | Single  | 0.0105                                          | 0.0165 | —      | —    | 25                                                | 12.5               | 2.2                |
| FDZ206P     | -20                           | Single  | —                                               | 0.0095 | 0.0145 | —    | 38                                                | 13                 | 2.2                |

**SC75-6 FLMP, SO-8 FLMP, SuperSOT-6 FLMP**

| Part Number                  | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |       |       | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|------------------------------|-------------------------------|---------|-------------------------------------------------|--------|-------|-------|---------------------------------------------------|--------------------|--------------------|
|                              |                               |         | 10V                                             | 4.5V   | 2.5V  | 1.8V  |                                                   |                    |                    |
| <b>SC75-6 FLMP P-Channel</b> |                               |         |                                                 |        |       |       |                                                   |                    |                    |
| FDJ129P                      | -20                           | Single  | –                                               | 0.07   | 0.12  | –     | 4                                                 | 4.2                | 1.6                |
| <b>SO-8 FLMP N-Channel</b>   |                               |         |                                                 |        |       |       |                                                   |                    |                    |
| FDS6064N7                    | 20                            | Single  | –                                               | 0.0035 | 0.004 | 0.006 | 70                                                | 23                 | 3                  |
| FDS7062N7                    | 20                            | Single  | Replaced by FDS6064N7                           |        |       |       |                                                   |                    |                    |
| FDS6162N7                    | 20                            | Single  | –                                               | 0.0035 | 0.005 | –     | 52                                                | 23                 | 3                  |
| FDS6064N3                    | 20                            | Single  | –                                               | 0.004  | 0.005 | 0.007 | 70                                                | 23                 | 3                  |
| FDS6162N3                    | 20                            | Single  | –                                               | 0.0045 | 0.006 | –     | 52                                                | 21                 | 3                  |
| FDS7064N7                    | 30                            | Single  | –                                               | 0.007  | –     | –     | 30                                                | 16.5               | 3                  |
| FDS7064N                     | 30                            | Single  | –                                               | 0.0075 | –     | –     | 30                                                | 16                 | 3                  |
| FDS7088N7                    | 30                            | Single  | 0.003                                           | 0.004  | –     | –     | 37                                                | 23                 | 3                  |
| FDS7088N3                    | 30                            | Single  | 0.004                                           | 0.0055 | –     | –     | 34                                                | 21                 | 3                  |
| FDS7066N7                    | 30                            | Single  | 0.0045                                          | 0.0055 | –     | –     | 43                                                | 23                 | 3                  |
| FDS7060N7                    | 30                            | Single  | 0.005                                           | 0.007  | –     | –     | 35                                                | 19                 | 3                  |
| FDS7066N3                    | 30                            | Single  | 0.0055                                          | 0.0065 | –     | –     | 43                                                | 23                 | 3                  |
| FDS7082N3                    | 30                            | Single  | 0.006                                           | 0.008  | –     | –     | 38                                                | 17.5               | 3                  |
| FDS7096N3                    | 30                            | Single  | 0.009                                           | 0.012  | –     | –     | 16                                                | 14                 | 3                  |
| FDS7066SN3                   | 30                            | SyncFET | 0.0055                                          | 0.006  | –     | –     | 41                                                | 19                 | 3                  |
| FDS7068SN3                   | 30                            | SyncFET | 0.0055                                          | 0.006  | –     | –     | 41                                                | 19                 | 3                  |
| FDS7064SN3                   | 30                            | SyncFET | 0.008                                           | 0.0095 | –     | –     | 25                                                | 16                 | 3.13               |
| FDS4070N7                    | 40                            | Single  | 0.007                                           | –      | –     | –     | 47                                                | 15.3               | 3                  |
| FDS4070N3                    | 40                            | Single  | 0.0075                                          | –      | –     | –     | 47                                                | 15.3               | 3                  |
| FDS4072N7                    | 40                            | Single  | 0.009                                           | 0.011  | –     | –     | 33                                                | 12.4               | 3                  |
| FDS4080N7                    | 40                            | Single  | 0.01                                            | –      | –     | –     | 30                                                | 13                 | 3.9                |
| FDS4072N3                    | 40                            | Single  | 0.01                                            | 0.012  | –     | –     | 33                                                | 12.4               | 3                  |
| FDS4080N3                    | 40                            | Single  | 0.0105                                          | –      | –     | –     | 30                                                | 13                 | 3.9                |
| FDS5170N7                    | 60                            | Single  | 0.012                                           | –      | –     | –     | 51                                                | 10.6               | 3                  |
| FDS3170N7                    | 100                           | Single  | 0.026                                           | –      | –     | –     | 55                                                | 6.7                | 3                  |
| FDS2070N3                    | 150                           | Single  | 0.078                                           | –      | –     | –     | 38                                                | 4.1                | 3                  |
| FDS2070N7                    | 150                           | Single  | 0.078                                           | –      | –     | –     | 38                                                | 4.1                | 3                  |
| FDS2170N3                    | 200                           | Single  | 0.128                                           | –      | –     | –     | 26                                                | 3                  | 3                  |
| FDS2170N7                    | 200                           | Single  | 0.128                                           | –      | –     | –     | 26                                                | 3                  | 3                  |

**SC75-6 FLMP, SO-8 FLMP, SuperSOT-6 FLMP (Continued)**

| Part Number                      | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |       |       | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|----------------------------------|-------------------------------|---------|-------------------------------------------------|--------|-------|-------|---------------------------------------------------|--------------------|--------------------|
|                                  |                               |         | 10V                                             | 4.5V   | 2.5V  | 1.8V  |                                                   |                    |                    |
| <b>SO-8 FLMP P-Channel</b>       |                               |         |                                                 |        |       |       |                                                   |                    |                    |
| FDS7079ZN3                       | -30                           | Single  | 0.0075                                          | 0.0115 | —     | —     | 39                                                | 16                 | 3.13               |
| <b>SuperSOT-6 FLMP N-Channel</b> |                               |         |                                                 |        |       |       |                                                   |                    |                    |
| FDC796N                          | 30                            | Single  | 0.009                                           | 0.012  | —     | —     | 14                                                | 12.5               | 1.8                |
| FDC3616N                         | 100                           | Single  | 0.07                                            | —      | —     | —     | 23                                                | 3.7                | 1.8                |
| <b>SuperSOT-6 FLMP P-Channel</b> |                               |         |                                                 |        |       |       |                                                   |                    |                    |
| FDC6036P                         | -20                           | Dual    | —                                               | 0.044  | 0.064 | 0.095 | 10                                                | 5                  | 1.5                |
| FDC697P                          | -20                           | Single  | —                                               | 0.02   | 0.025 | 0.035 | 39                                                | 8                  | 1.9                |
| FDC699P                          | -20                           | Single  | —                                               | 0.022  | 0.03  | —     | 27                                                | 7                  | 1.9                |

**SC70-6**

| Part Number                                  | BV <sub>DSS</sub><br>Min. (V) | Config.       | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |             |                      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|----------------------------------------------|-------------------------------|---------------|-------------------------------------------------|-------------|----------------------|------|---------------------------------------------------|--------------------|--------------------|
|                                              |                               |               | 10V                                             | 4.5V        | 2.5V                 | 1.8V |                                                   |                    |                    |
| <b>SC70-6 N-Channel</b>                      |                               |               |                                                 |             |                      |      |                                                   |                    |                    |
| FDG6335N                                     | 20                            | Dual          | –                                               | 0.3         | 0.4                  | –    | 1.1                                               | 0.7                | 0.3                |
| FDG327N                                      | 20                            | Single        | –                                               | 0.09        | 0.1                  | 0.14 | 4.5                                               | 1.5                | 0.42               |
| FDG327NZ                                     | 20                            | Single        | –                                               | 0.09        | 0.1                  | 0.14 | 4.2                                               | 1.5                | 0.42               |
| FDG329N                                      | 20                            | Single        | –                                               | 0.09        | 0.115                | –    | 3.3                                               | 1.5                | 0.42               |
| FDG311N                                      | 20                            | Single        | –                                               | 0.115       | 0.15                 | –    | 3                                                 | 1.9                | 0.75               |
| FDG6313N                                     | 25                            | Dual          | –                                               | 0.45        | 0.06@2.7V            | –    | 1.64                                              | 0.5                | 0.3                |
| FDG6303N                                     | 25                            | Dual          | –                                               | 0.45        | 0.6@2.7V             | –    | 1.64                                              | 0.5                | 0.3                |
| FDG6301N                                     | 25                            | Dual          | –                                               | 4           | 5@2.7V               | –    | 0.29                                              | 0.22               | 0.3                |
| FDG313N                                      | 25                            | Single        | –                                               | 0.45        | 0.6@2.7V             | –    | 1.64                                              | 0.95               | 0.75               |
| FDG315N                                      | 30                            | Single        | 0.12                                            | 0.16        | –                    | –    | 2.1                                               | 2                  | 0.75               |
| FDG361N                                      | 100                           | Single        | 0.5                                             | –           | –                    | –    | 3.7                                               | 0.6                | 0.42               |
| <b>SC70-6 Complementary N- and P-Channel</b> |                               |               |                                                 |             |                      |      |                                                   |                    |                    |
| FDG6332C                                     | 20<br>-20                     | Complementary | –                                               | 0.3<br>0.42 | 0.4<br>0.63          | –    | 1.1                                               | 0.7<br>0.6         | 0.3                |
| FDG6321C                                     | 25<br>-25                     | Complementary | –                                               | 0.45<br>1.1 | 0.6@2.7V<br>1.5@2.7V | –    | 1.64<br>1.1                                       | 0.5<br>0.41        | 0.3                |
| FDG6320C                                     | 25<br>-25                     | Complementary | –                                               | 4<br>10     | 5@2.7V<br>13@2.7V    | –    | 0.29<br>0.22                                      | 0.22<br>0.14       | 0.3                |
| FDG6322C                                     | 25<br>-25                     | Complementary | –                                               | 4<br>1.1    | 5@2.7V<br>1.5@2.7V   | –    | 1.1<br>1.4                                        | 0.22<br>0.41       | 0.3                |
| <b>SC70-6 P-Channel</b>                      |                               |               |                                                 |             |                      |      |                                                   |                    |                    |
| FDG316P                                      | -30                           | Single        | 0.19                                            | 0.3         | –                    | –    | 3.5                                               | 1.6                | 0.75               |
| FDG6304P                                     | -25                           | Dual          | –                                               | 1.1         | 1.5@2.7V             | –    | 1.1                                               | 0.41               | 0.3                |
| FDG6302P                                     | -25                           | Dual          | –                                               | 10          | 13@2.7V              | –    | 0.22                                              | 0.14               | 0.3                |
| FDG314P                                      | -25                           | Single        | –                                               | 1.1         | 1.5@2.7V             | –    | 1.1                                               | 0.65               | 0.75               |
| FDG6308P                                     | -20                           | Dual          | –                                               | 0.4         | 0.55                 | 0.8  | 1.8                                               | 0.6                | 0.3                |
| FDG6306P                                     | -20                           | Dual          | –                                               | 0.42        | 0.63                 | –    | 1.4                                               | 0.6                | 0.3                |
| FDG6318P                                     | -20                           | Dual          | –                                               | 0.78        | 1.2                  | –    | 0.86                                              | 0.5                | 0.3                |
| FDG6318PZ                                    | -20                           | Dual          | –                                               | 0.78        | 1.2                  | –    | 1.08                                              | 0.5                | 0.3                |
| FDG326P                                      | -20                           | Single        | –                                               | 0.14        | 0.18                 | 0.25 | 4.4                                               | 1.5                | 0.75               |
| FDG318P                                      | -20                           | Single        | Replaced by FDG328P                             |             |                      |      |                                                   |                    |                    |
| FDG328P                                      | -20                           | Single        | –                                               | 0.145       | 0.21                 | –    | 3.7                                               | 1.5                | 0.75               |

**SC70-6 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |       | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|-------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V  |                                                   |                    |                    |
| FDG312P     | -20                           | Single  | —                                               | 0.18 | 0.25 | —     | 3.3                                               | 1.2                | 0.75               |
| FDG6316P    | -12                           | Dual    | —                                               | 0.27 | 0.36 | 0.65  | 1.7                                               | 0.7                | 0.3                |
| FDG330P     | -12                           | Single  | —                                               | 0.11 | 0.15 | 0.215 | 5                                                 | 2                  | 0.75               |

**MicroFET**

| Part Number               | BV <sub>DSS</sub><br>Min. (V) | Config.           | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |       |       |       | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|---------------------------|-------------------------------|-------------------|-------------------------------------------------|-------|-------|-------|---------------------------------------|--------------------|--------------------|
|                           |                               |                   | 10V                                             | 4.5V  | 2.5V  | 1.8V  |                                       |                    |                    |
| <b>MicroFET N-Channel</b> |                               |                   |                                                 |       |       |       |                                       |                    |                    |
| FDM3300NZ                 | 20                            | Dual Common Drain | —                                               | 0.023 | 0.028 | —     | 12                                    | 10                 | 2.5                |
| <b>MicroFET P-Channel</b> |                               |                   |                                                 |       |       |       |                                       |                    |                    |
| FDM606P                   | -20                           | Single            | —                                               | 0.026 | 0.033 | 0.052 | 20                                    | 6.8                | 1.92               |

**SuperSOT-3/SOT-23**

| Part Number                        | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |       |           |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|------------------------------------|-------------------------------|---------|-------------------------------------------------|-------|-----------|------|---------------------------------------|--------------------|--------------------|
|                                    |                               |         | 10V                                             | 4.5V  | 2.5V      | 1.8V |                                       |                    |                    |
| <b>SOT-23/SuperSOT-3 N-Channel</b> |                               |         |                                                 |       |           |      |                                       |                    |                    |
| FDN339AN                           | 20                            | Single  | –                                               | 0.035 | 0.05      | –    | 7                                     | 3                  | 0.5                |
| FDN371N                            | 20                            | Single  | –                                               | 0.05  | 0.06      | –    | 7.6                                   | 2.5                | 0.5                |
| FDN327N                            | 20                            | Single  | –                                               | 0.07  | 0.08      | 0.12 | 4.5                                   | 2                  | 0.5                |
| FDN335N                            | 20                            | Single  | –                                               | 0.07  | 0.1       | –    | 3.5                                   | 1.7                | 0.5                |
| NDS335N                            | 20                            | Single  | –                                               | 0.11  | 0.14@2.7V | –    | 6.4                                   | 1.7                | 0.5                |
| NDS331N                            | 20                            | Single  | –                                               | 0.16  | 0.21@2.7V | –    | 3.5                                   | 1.3                | 0.5                |
| FDV305N                            | 20                            | Single  | –                                               | 0.22  | 0.3       | –    | 1.1                                   | 0.9                | 0.35               |
| FDV303N                            | 25                            | Single  | –                                               | 0.45  | 0.6@2.7V  | –    | 1.64                                  | 0.68               | 0.35               |
| FDV301N                            | 25                            | Single  | –                                               | 4     | 5@2.7V    | –    | 0.49                                  | 0.22               | 0.35               |
| FDN359AN                           | 30                            | Single  | 0.046                                           | 0.06  | –         | –    | 5                                     | 2.7                | 0.5                |
| FDN337N                            | 30                            | Single  | –                                               | 0.065 | 0.082     | –    | 7                                     | 2.2                | 0.5                |
| FDN357N                            | 30                            | Single  | 0.06                                            | 0.09  | –         | –    | 4.2                                   | 1.9                | 0.5                |
| NDS355AN                           | 30                            | Single  | 0.085                                           | 0.125 | –         | –    | 3.5                                   | 1.7                | 0.5                |
| NDS355N                            | 30                            | Single  | Replaced by NDS355AN                            |       |           |      |                                       |                    |                    |
| FDN361AN                           | 30                            | Single  | 0.1                                             | 0.15  | –         | –    | 2.1                                   | 1.8                | 0.5                |
| NDS351AN                           | 30                            | Single  | 0.16                                            | 0.25  | –         | –    | 1.9                                   | 1.2                | 0.5                |
| NDS351N                            | 30                            | Single  | Replaced by NDS351AN                            |       |           |      |                                       |                    |                    |
| FDN372S                            | 30                            | SyncFET | 0.04                                            | 0.05  | –         | –    | 5.8                                   | 2.6                | 0.5                |
| BSS138                             | 50                            | Single  | 3.5                                             | 6     | –         | –    | 1.7                                   | 0.22               | 0.36               |
| FDN5630                            | 60                            | Single  | 0.1                                             | –     | –         | –    | 7                                     | 1.7                | 0.5                |
| 2N7002MTF                          | 60                            | Single  | 5                                               | –     | –         | –    | –                                     | 0.115              | 0.2                |
| MMBF170                            | 60                            | Single  | 5                                               | –     | –         | –    | 1.7                                   | 0.5                | 0.3                |
| NDS7002A                           | 60                            | Single  | 2                                               | 3     | –         | –    | 1.7                                   | 0.28               | 0.3                |
| 2N7000                             | 60                            | Single  | 5                                               | 5.3   | –         | –    | 1.7                                   | 0.2                | 0.4                |
| 2N7002                             | 60                            | Single  | 7.5                                             | 7.5   | –         | –    | 1.7                                   | 0.12               | 0.2                |
| BSS123                             | 100                           | Single  | 6                                               | –     | –         | –    | 1.4                                   | 0.17               | 0.36               |
| <b>SOT-23/SuperSOT-3 P-Channel</b> |                               |         |                                                 |       |           |      |                                       |                    |                    |
| NDS0605                            | -60                           | Single  | 5                                               | –     | –         | –    | 1.8                                   | 0.18               | 0.36               |
| FDN5618P                           | -60                           | Single  | 0.17                                            | 0.23  | –         | –    | 8.6                                   | 1.2                | 0.5                |
| NDS0610                            | -60                           | Single  | 10                                              | 20    | –         | –    | 1.8                                   | 0.12               | 0.36               |
| BSS84                              | -50                           | Single  | 10                                              | –     | –         | –    | 0.9                                   | 0.13               | 0.36               |



**SuperSOT-3/SOT-23 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |       |           |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|-------|-----------|------|---------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V  | 2.5V      | 1.8V |                                       |                    |                    |
| FDN360P     | -30                           | Single  | 0.03                                            | 0.125 | —         | —    | 6.2                                   | 2                  | 0.5                |
| NDH8502P    | -30                           | Single  | Replaced by FDN360P                             |       |           |      |                                       |                    |                    |
| FDN358P     | -30                           | Single  | 0.125                                           | 0.2   | —         | —    | 4                                     | 1.5                | 0.5                |
| NDS356AP    | -30                           | Single  | 0.2                                             | 0.3   | —         | —    | 3.4                                   | 1.1                | 0.5                |
| NDS356P     | -30                           | Single  | Replaced by NDS356AP                            |       |           |      |                                       |                    |                    |
| NDS352AP    | -30                           | Single  | 0.3                                             | 0.5   | —         | —    | 2                                     | 0.9                | 0.5                |
| NDS352P     | -30                           | Single  | Replaced by NDS352AP                            |       |           |      |                                       |                    |                    |
| FDV304P     | -25                           | Single  | —                                               | 1.1   | 1.5@2.7V  | —    | 1.1                                   | 0.46               | 0.35               |
| FDV302P     | -25                           | Single  | —                                               | 10    | 13@2.7V   | —    | 0.22                                  | 0.12               | 0.35               |
| FDN304P     | -20                           | Single  | —                                               | 0.052 | 0.07      | 0.1  | 12                                    | 2.4                | 0.5                |
| FDN304PZ    | -20                           | Single  | —                                               | 0.052 | 0.07      | 0.1  | 12                                    | 2.4                | 0.5                |
| FDN302P     | -20                           | Single  | —                                               | 0.055 | 0.08      | —    | 9                                     | 2.4                | 0.5                |
| FDN340P     | -20                           | Single  | —                                               | 0.07  | 0.11      | —    | 8                                     | 2                  | 0.5                |
| FDN342P     | -20                           | Single  | —                                               | 0.08  | 0.13      | —    | 6.3                                   | 2                  | 0.5                |
| FDN338P     | -20                           | Single  | —                                               | 0.115 | 0.155     | —    | 4.4                                   | 1.6                | 0.5                |
| FDN308P     | -20                           | Single  | —                                               | 0.125 | 0.19      | —    | 3.8                                   | 1.5                | 0.5                |
| FDN336P     | -20                           | Single  | —                                               | 0.2   | 0.27      | —    | 3.6                                   | 1.2                | 0.5                |
| NDS332P     | -20                           | Single  | —                                               | 0.3   | 0.41@2.7V | —    | 3.7                                   | 1                  | 0.5                |
| FDN306P     | -12                           | Single  | —                                               | 0.04  | 0.05      | 0.08 | 12                                    | 2.6                | 0.5                |

**SuperSOT-6**

| Part Number                                      | BV <sub>DSS</sub><br>Min. (V) | Config.       | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |               |                    |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------------------------|-------------------------------|---------------|-------------------------------------------------|---------------|--------------------|------|---------------------------------------|--------------------|--------------------|
|                                                  |                               |               | 10V                                             | 4.5V          | 2.5V               | 1.8V |                                       |                    |                    |
| <b>SuperSOT-6 N-Channel</b>                      |                               |               |                                                 |               |                    |      |                                       |                    |                    |
| FDC6401N                                         | 20                            | Dual          | —                                               | 0.07          | 0.095              | —    | 3.3                                   | 3                  | 0.96               |
| FDC6305N                                         | 20                            | Dual          | —                                               | 0.08          | 0.12               | —    | 3.5                                   | 2.7                | 0.9                |
| FDC637AN                                         | 20                            | Single        | —                                               | 0.024         | 0.032              | —    | 10.5                                  | 6.2                | 1.6                |
| NDH831N                                          | 20                            | Single        | Replaced by FDC637AN                            |               |                    |      |                                       |                    |                    |
| FDC6303N                                         | 25                            | Dual          | —                                               | 0.45          | 0.6@2.7V           | —    | 1.64                                  | 0.68               | 0.9                |
| FDC6301N                                         | 25                            | Dual          | —                                               | 4             | 5@2.7V             | —    | 0.49                                  | 0.22               | 0.9                |
| FDC6561AN                                        | 30                            | Dual          | 0.095                                           | 0.145         | —                  | —    | 2.1                                   | 2.5                | 0.9                |
| FDC645N                                          | 30                            | Single        | 0.026                                           | 0.03          | —                  | —    | 13                                    | 5.5                | 1.6                |
| FDC655AN                                         | 30                            | Single        | 0.027                                           | 0.035         | —                  | —    | 9                                     | 6.3                | 1.6                |
| FDC633N                                          | 30                            | Single        | —                                               | 0.042         | 0.054              | —    | 11                                    | 5.2                | 1.6                |
| FDC653N                                          | 30                            | Single        | 0.035                                           | 0.055         | —                  | —    | 12                                    | 5                  | 1.6                |
| NDC651N                                          | 30                            | Single        | 0.06                                            | 0.09          | —                  | —    | 10                                    | 3.2                | 1.6                |
| NDC7002N                                         | 50                            | Dual          | 2                                               | —             | —                  | —    | 1                                     | 0.51               | 0.96               |
| FDC5612                                          | 60                            | Single        | 0.055                                           | —             | —                  | —    | 12.5                                  | 4.3                | 1.6                |
| FDC3512                                          | 80                            | Single        | 0.077                                           | —             | —                  | —    | 13                                    | 3                  | 1.6                |
| FDC3601N                                         | 100                           | Dual          | 0.5                                             | —             | —                  | —    | 3.7                                   | 1                  | 0.96               |
| FDC3612                                          | 100                           | Single        | 0.125                                           | —             | —                  | —    | 14                                    | 2.6                | 1.6                |
| FDC2512                                          | 150                           | Single        | 0.425                                           | —             | —                  | —    | 8                                     | 1.4                | 1.6                |
| FDC2612                                          | 200                           | Single        | 0.725                                           | —             | —                  | —    | 8                                     | 1.1                | 1.6                |
| <b>SuperSOT-6 Complementary N- and P-Channel</b> |                               |               |                                                 |               |                    |      |                                       |                    |                    |
| FDC6420C                                         | 20<br>-20                     | Complementary | —                                               | 0.07<br>0.125 | 0.095<br>0.19      | —    | 3.3<br>3.7                            | 3<br>2.2           | 0.96               |
| FDC6327C                                         | 20<br>-20                     | Complementary | —                                               | 0.08<br>0.17  | 0.12<br>0.25       | —    | 3.25<br>2.85                          | 2.7<br>1.9         | 0.96               |
| FDC6320C                                         | 25<br>-25                     | Complementary | —                                               | —             | 5@2.7V<br>13@2.7V  | —    | 0.29<br>0.23                          | 0.22<br>0.12       | 0.9                |
| FDC6322C                                         | 25<br>-25                     | Complementary | —                                               | —             | 5@2.7V<br>1.5@2.7V | —    | 0.49<br>1                             | 0.22<br>0.46       | 0.9                |
| FDC6321C                                         | 25<br>-25                     | Complementary | —                                               | 0.45<br>1.1   | —                  | —    | 1.64<br>1.1                           | 0.68<br>0.46       | 0.9                |
| FDC6432SH                                        | 30<br>-12                     | Complementary | 0.09                                            | 0.105         | 0.125              | 0.22 | 2.5<br>5.7                            | 2.4<br>-2.5        | 1.3                |

**SuperSOT-6 (Continued)**

| Part Number                 | BV <sub>DSS</sub><br>Min. (V) | Config.       | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |              |          |       | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-----------------------------|-------------------------------|---------------|-------------------------------------------------|--------------|----------|-------|---------------------------------------|--------------------|--------------------|
|                             |                               |               | 10V                                             | 4.5V         | 2.5V     | 1.8V  |                                       |                    |                    |
| FDC6333C                    | 30<br>-30                     | Complementary | 0.095<br>0.15                                   | 0.15<br>0.22 | —        | —     | 4.7<br>4.1                            | 2.5<br>2           | 0.96               |
| NDC7001C                    | 60<br>-60                     | Complementary | 2<br>5                                          | 4<br>7.5     | —        | —     | 1.1<br>1.6                            | 0.51<br>0.34       | 0.96               |
| <b>SuperSOT-6 P-Channel</b> |                               |               |                                                 |              |          |       |                                       |                    |                    |
| NDC7003P                    | -60                           | Dual          | 5                                               | 7            | —        | —     | 1.6                                   | 0.34               | 0.96               |
| FDC5614P                    | -60                           | Single        | 0.105                                           | 0.135        | —        | —     | 15                                    | 3                  | 1.6                |
| FDC6506P                    | -30                           | Dual          | 0.17                                            | 0.28         | —        | —     | 2.3                                   | 1.8                | 0.96               |
| FDC658P                     | -30                           | Single        | 0.05                                            | 0.075        | —        | —     | 8                                     | 4                  | 1.6                |
| SI3457DV                    | -30                           | Single        | 0.05                                            | 0.075        | —        | —     | 6                                     | 4                  | 1.6                |
| FDC654P                     | -30                           | Single        | 0.075                                           | 0.125        | —        | —     | 6.2                                   | 3.6                | 1.6                |
| NDC652P                     | -30                           | Single        | 0.11                                            | 0.18         | —        | —     | 10.5                                  | 2.4                | 1.6                |
| FDC6304P                    | -25                           | Dual          | —                                               | 1.1          | 1.5@2.7V | —     | 1.1                                   | 0.46               | 0.9                |
| FDC6302P                    | -25                           | Dual          | —                                               | 10           | 13@2.7V  | —     | 0.22                                  | 0.12               | 0.9                |
| FDC6312P                    | -20                           | Dual          | —                                               | 0.115        | 0.155    | 0.225 | 4.4                                   | 2.3                | 0.96               |
| FDC6310P                    | -20                           | Dual          | —                                               | 0.125        | 0.19     | —     | 3.7                                   | 2.2                | 0.96               |
| FDC6306P                    | -20                           | Dual          | —                                               | 0.17         | 0.25     | —     | 3                                     | 1.9                | 0.96               |
| FDC6308P                    | -20                           | Dual          | Replaced by FDC6306P                            |              |          |       |                                       |                    |                    |
| FDC604P                     | -20                           | Single        | —                                               | 0.033        | 0.043    | 0.06  | 19                                    | 5.5                | 1.6                |
| FDC602P                     | -20                           | Single        | —                                               | 0.035        | 0.05     | —     | 14                                    | 5.5                | 1.6                |
| FDC638P                     | -20                           | Single        | —                                               | 0.048        | 0.065    | —     | 10                                    | 4.5                | 1.6                |
| FDC640P                     | -20                           | Single        | —                                               | 0.053        | 0.08     | —     | 9                                     | 4.5                | 1.6                |
| FDC642P                     | -20                           | Single        | —                                               | 0.065        | 0.1      | —     | 7.2                                   | 4                  | 1.6                |
| FDC634P                     | -20                           | Single        | —                                               | 0.08         | 0.11     | —     | 7.2                                   | 3.5                | 1.6                |
| FDC636P                     | -20                           | Single        | —                                               | 0.13         | 0.18     | —     | 6                                     | 2.8                | 1.6                |
| FDC6318P                    | -12                           | Dual          | —                                               | 0.09         | 0.125    | 0.2   | 5.4                                   | 2.5                | 0.96               |
| FDC606P                     | -12                           | Single        | —                                               | 0.026        | 0.035    | 0.053 | 18                                    | 6                  | 1.6                |

**TO-92**

| Part Number            | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------|--------------------|--------------------|
|                        |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                       |                    |                    |
| <b>TO-92 N-Channel</b> |                               |         |                                                 |      |      |      |                                       |                    |                    |
| BS270                  | 60                            | Single  | 2                                               | –    | –    | –    | –                                     | 0.4                | 0.63               |
| 2N7000BU               | 60                            | Single  | 5                                               | –    | –    | –    | –                                     | 0.2                | 0.4                |
| 2N7000TA               | 60                            | Single  | 5                                               | –    | –    | –    | –                                     | 0.2                | 0.4                |
| BS170                  | 60                            | Single  | 5                                               | –    | –    | –    | –                                     | 0.5                | 0.83               |
| SSN1N45B               | 450                           | Single  | 4.25                                            | –    | –    | –    | 6.5                                   | 0.5                | 0.9                |

**TO-92L**

| Part Number             | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------------------|--------------------|--------------------|
|                         |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                   |                    |                    |
| <b>TO-92L N-Channel</b> |                               |         |                                                 |      |      |      |                                                   |                    |                    |
| IRFNL210B               | 200                           | Single  | 1.5                                             | –    | –    | –    | 7.2                                               | 1                  | 3.1                |
| FQNL2N50B               | 500                           | Single  | 5.3                                             | –    | –    | –    | 6                                                 | 0.35               | 1.5                |
| FQNL1N50B               | 500                           | Single  | 9                                               | –    | –    | –    | 4                                                 | 0.27               | 1.5                |

**SuperSOT-8**

| Part Number                                      | BV <sub>DSS</sub><br>Min. (V) | Config.       | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |               |               |       | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------------------------|-------------------------------|---------------|-------------------------------------------------|---------------|---------------|-------|---------------------------------------------------|--------------------|--------------------|
|                                                  |                               |               | 10V                                             | 4.5V          | 2.5V          | 1.8V  |                                                   |                    |                    |
| <b>SuperSOT-8 N-Channel</b>                      |                               |               |                                                 |               |               |       |                                                   |                    |                    |
| FDR8305N                                         | 20                            | Dual          | –                                               | 0.022         | 0.028         | –     | 16.2                                              | 4.5                | 0.8                |
| FDR6580                                          | 20                            | Single        | –                                               | 0.009         | 0.011         | –     | 34                                                | 11.2               | 1.8                |
| FDR6674A                                         | 30                            | Single        | 0.0085                                          | 0.0095        | –             | –     | 33                                                | 11.5               | 1.8                |
| FDR4420A                                         | 30                            | Single        | 0.009                                           | 0.013         | –             | –     | 23                                                | 11                 | 1.8                |
| FDR6678A                                         | 30                            | Single        | 0.02                                            | 0.024         | –             | –     | 13                                                | 7.5                | 1.8                |
| <b>SuperSOT-8 Complementary N- and P-Channel</b> |                               |               |                                                 |               |               |       |                                                   |                    |                    |
| FDR8702H                                         | 20<br>-20                     | Complementary | –                                               | 0.038<br>0.08 | 0.054<br>0.11 | –     | 7<br>6                                            | 3.6<br>-2.6        | 0.8                |
| <b>SuperSOT-8 P-Channel</b>                      |                               |               |                                                 |               |               |       |                                                   |                    |                    |
| FDR8508P                                         | -30                           | Dual          | 0.05                                            | 0.075         | –             | –     | 8                                                 | 3                  | 0.8                |
| FDR856P                                          | -30                           | Single        | Replaced by FDR858P                             |               |               |       |                                                   |                    |                    |
| FDR858P                                          | -30                           | Single        | 0.019                                           | 0.028         | –             | –     | 21                                                | 8                  | 1.8                |
| FDR8308P                                         | -20                           | Dual          | -                                               | 0.05          | 0.07          | –     | 13                                                | 3.2                | 0.8                |
| NDH8302P                                         | -20                           | Dual          | Replaced by NDH8304P                            |               |               |       |                                                   |                    |                    |
| NDH8304P                                         | -20                           | Dual          | –                                               | 0.07          | 0.095@2.7V    | –     | 16                                                | 2.7                | 0.8                |
| FDR844P                                          | -20                           | Single        | –                                               | 0.011         | 0.014         | 0.02  | 53                                                | 10                 | 1.8                |
| FDR840P                                          | -20                           | Single        | –                                               | 0.011         | 0.016         | –     | 41                                                | 10                 | 1.8                |
| FDR836P                                          | -20                           | Single        | Replaced by FDR838P                             |               |               |       |                                                   |                    |                    |
| FDR838P                                          | -20                           | Single        | –                                               | 0.017         | 0.024         | –     | 30                                                | 8                  | 1.8                |
| NDH834P                                          | -20                           | Single        | Replaced by FDR838P                             |               |               |       |                                                   |                    |                    |
| NDH832P                                          | -20                           | Single        | –                                               | 0.06          | 0.08@2.7V     | –     | 18                                                | 4.2                | 1.8                |
| FDR842P                                          | -12                           | Single        | –                                               | 0.009         | 0.012         | 0.016 | 57                                                | 11                 | 1.8                |

**TSSOP-8**

| Part Number                                   | BV <sub>DSS</sub><br>Min. (V) | Config.           | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |       |        | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-----------------------------------------------|-------------------------------|-------------------|-------------------------------------------------|--------|-------|--------|---------------------------------------|--------------------|--------------------|
|                                               |                               |                   | 10V                                             | 4.5V   | 2.5V  | 1.8V   |                                       |                    |                    |
| <b>TSSOP-8 N-Channel</b>                      |                               |                   |                                                 |        |       |        |                                       |                    |                    |
| FDW2501NZ                                     | 20                            | Dual              | —                                               | 0.018  | 0.025 | —      | 12                                    | 5.5                | 1                  |
| FDW2501N                                      | 20                            | Dual              | —                                               | 0.018  | 0.028 | —      | 14                                    | 6                  | 1                  |
| FDW2503NZ                                     | 20                            | Dual              | —                                               | 0.02   | 0.026 | —      | 12                                    | 5.5                | 1                  |
| FDW2503N                                      | 20                            | Dual              | —                                               | 0.021  | 0.035 | —      | 12                                    | 5.5                | 1                  |
| FDW9926A                                      | 20                            | Dual              | —                                               | 0.032  | 0.045 | —      | 6                                     | 4.5                | 1                  |
| FDW2507N                                      | 20                            | Dual Common Drain | —                                               | 0.019  | 0.023 | —      | 20                                    | 7.5                | 1.6                |
| FDW2507NZ                                     | 20                            | Dual Common Drain | —                                               | 0.019  | 0.023 | —      | 20                                    | 7.5                | 1.6                |
| FDW2509NZ                                     | 20                            | Dual Common Drain | —                                               | 0.02   | 0.026 | —      | 13                                    | 7.1                | 1.6                |
| FDW2515NZ                                     | 20                            | Dual Common Drain | —                                               | 0.029  | 0.04  | —      | 9                                     | 5.8                | 1.6                |
| FDW2516NZ                                     | 20                            | Dual Common Drain | —                                               | 0.03   | 0.04  | —      | 9                                     | 5.8                | 1.6                |
| <b>TSSOP-8 Complementary N- and P-Channel</b> |                               |                   |                                                 |        |       |        |                                       |                    |                    |
| FDW2520C                                      | 20                            | Complementary     | —                                               | 0.018  | 0.028 | —      | 14                                    | 6                  | 1                  |
|                                               | -20                           |                   |                                                 | 0.035  | 0.057 |        | 14                                    | 4.4                |                    |
| FDW2521C                                      | 20                            | Complementary     | —                                               | 0.021  | 0.035 | —      | 12                                    | 5.5                | 1                  |
|                                               | -20                           |                   |                                                 | 0.043  | 0.07  |        | 9.7                                   | 3.8                |                    |
| <b>TSSOP-8 P-Channel</b>                      |                               |                   |                                                 |        |       |        |                                       |                    |                    |
| FDW256P                                       | -30                           | Single            | 0.0135                                          | 0.02   | —     | —      | 28                                    | 8                  | 1.3                |
| FDW2506P                                      | -20                           | Dual              | —                                               | 0.022  | 0.033 | —      | 21                                    | 5.3                | 1                  |
| FDW2502P                                      | -20                           | Dual              | —                                               | 0.035  | 0.057 | —      | 14                                    | 4.4                | 1                  |
| FDW2502PZ                                     | -20                           | Dual              | —                                               | 0.035  | 0.057 | —      | 14                                    | 4.4                | 1                  |
| FDW2504P                                      | -20                           | Dual              | —                                               | 0.043  | 0.07  | —      | 9.7                                   | 3.8                | 1                  |
| FDW254P                                       | -20                           | Single            | —                                               | 0.012  | 0.015 | 0.0215 | 60                                    | 9.2                | 1.3                |
| FDW254PZ                                      | -20                           | Single            | —                                               | 0.012  | 0.015 | 0.0215 | 60                                    | 9.2                | 1.4                |
| FDW252P                                       | -20                           | Single            | —                                               | 0.0125 | 0.018 | —      | 41                                    | 8.8                | 1.3                |
| FDW262P                                       | -20                           | Single            | —                                               | 0.047  | 0.065 | 0.1    | 13                                    | 4.5                | 1.3                |
| FDW2508P                                      | -12                           | Dual              | —                                               | 0.018  | 0.022 | 0.03   | 26                                    | 6                  | 1.3                |
| FDW258P                                       | -12                           | Single            | —                                               | 0.011  | 0.014 | 0.02   | 61                                    | 9                  | 1.3                |

**SO-8**

| Part Number           | BV <sub>DSS</sub><br>Min. (V) | Config.                    | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |                 |           |       | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-----------------------|-------------------------------|----------------------------|-------------------------------------------------|-----------------|-----------|-------|---------------------------------------|--------------------|--------------------|
|                       |                               |                            | 10V                                             | 4.5V            | 2.5V      | 1.8V  |                                       |                    |                    |
| <b>SO-8 N-Channel</b> |                               |                            |                                                 |                 |           |       |                                       |                    |                    |
| FDS6898A              | 20                            | Dual                       | —                                               | 0.014           | 0.018     | —     | 16                                    | 9.4                | 2                  |
| FDS6898AZ             | 20                            | Dual                       | —                                               | 0.014           | 0.018     | —     | 16                                    | 9.4                | 2                  |
| FDS6894A              | 20                            | Dual                       | —                                               | 0.017           | 0.02      | 0.03  | 17                                    | 8                  | 2                  |
| FDS6894AZ             | 20                            | Dual                       | —                                               | 0.017           | 0.02      | 0.03  | 14                                    | 8                  | 2                  |
| FDS6890A              | 20                            | Dual                       | —                                               | 0.018           | 0.022     | —     | 23                                    | 7.5                | 2                  |
| FDS6892A              | 20                            | Dual                       | —                                               | 0.018           | 0.024     | —     | 12                                    | 7.5                | 2                  |
| FDS6892AZ             | 20                            | Dual                       | —                                               | 0.018           | 0.024     | —     | 12                                    | 7.5                | 2                  |
| FDS6812A              | 20                            | Dual                       | —                                               | 0.022           | 0.035     | —     | 12                                    | 6.7                | 2                  |
| FDS9926A              | 20                            | Dual                       | —                                               | 0.03            | 0.043     | —     | 7                                     | 6.5                | 2                  |
| FDS6574A              | 20                            | Single                     | —                                               | 0.006           | 0.007     | 0.009 | 75                                    | 16                 | 2.5                |
| FDS6572A              | 20                            | Single                     | —                                               | 0.006           | 0.008     | —     | 57                                    | 16                 | 2.5                |
| FDS6570A              | 20                            | Single                     | —                                               | 0.0075          | 0.01      | —     | 47                                    | 15                 | 2.5                |
| SI4466DY              | 20                            | Single                     | —                                               | 0.0075          | 0.01      | —     | 47                                    | 15                 | 2.5                |
| NDS8426A              | 20                            | Single                     | —                                               | 0.0135          | .016@2.7V | —     | 43                                    | 10.5               | 2.5                |
| NDS8425               | 20                            | Single                     | —                                               | 0.022           | .028@2.7V | —     | 11                                    | 7.4                | 2.5                |
| FDS6982               | 30<br>30                      | Dual                       | 0.015<br>0.028                                  | 0.02<br>0.035   | —         | —     | 18.5<br>8.5                           | 8.6<br>6.3         | 2                  |
| FDS6990A              | 30                            | Dual                       | 0.018                                           | 0.023           | —         | —     | 17                                    | 7.5                | 2                  |
| FDS8926A              | 30                            | Dual                       | —                                               | 0.03            | 0.038     | —     | 19.8                                  | 5.5                | 2                  |
| FDS6912A              | 30                            | Dual                       | 0.028                                           | 0.035           | —         | —     | 9                                     | 6                  | 2                  |
| FDS8936A              | 30                            | Dual                       | 0.028                                           | 0.04            | —         | —     | 19                                    | 6                  | 2                  |
| FDS6912               | 30                            | Dual                       | 0.028                                           | 0.042           | —         | —     | 7                                     | 6                  | 2                  |
| FDS6930A              | 30                            | Dual                       | 0.04                                            | 0.055           | —         | —     | 5                                     | 5.5                | 2                  |
| NDS9936               | 30                            | Dual                       | Replaced by FDS6930A                            |                 |           |       |                                       |                    |                    |
| NDS9956A              | 30                            | Dual                       | 0.08                                            | 0.11            | —         | —     | 9.5                                   | 3.7                | 2                  |
| FDS6961A              | 30                            | Dual                       | 0.09                                            | 0.14            | —         | —     | 2.1                                   | 3.5                | 2                  |
| FDS6982S              | 30<br>30                      | Dual (MOSFET &<br>SyncFET) | 0.016<br>0.028                                  | 0.022<br>0.035  | —         | —     | 17.5<br>8.5                           | 8.6<br>6.3         | 2                  |
| FDS6984S              | 30<br>30                      | Dual (MOSFET &<br>SyncFET) | 0.019<br>0.04                                   | 0.028<br>0.055  | —         | —     | 11<br>5                               | 8.5<br>5.5         | 2                  |
| FDS6994S              | 30<br>30                      | Dual (MOSFET &<br>SyncFET) | 0.021<br>0.015                                  | 0.026<br>0.0175 | —         | —     | 8<br>25                               | 6.9<br>8.2         | 2                  |



**SO-8 (Continued)**

| Part Number   | BV <sub>DSS</sub><br>Min. (V) | Config.                    | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |                |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|---------------|-------------------------------|----------------------------|-------------------------------------------------|----------------|------|------|---------------------------------------------------|--------------------|--------------------|
|               |                               |                            | 10V                                             | 4.5V           | 2.5V | 1.8V |                                                   |                    |                    |
| FDS6986S      | 30<br>30                      | Dual (MOSFET &<br>SyncFET) | 0.029<br>0.02                                   | 0.038<br>0.028 | –    | –    | 6.5<br>11                                         | 6.5<br>7.9         | 2                  |
| FDS6900S      | 30<br>30                      | Dual (MOSFET &<br>SyncFET) | 0.03<br>0.022                                   | 0.037<br>0.029 | –    | –    | 8<br>12                                           | 6.9<br>8.2         | 2                  |
| FDS6990S      | 30                            | Dual SyncFET               | 0.022                                           | 0.03           | –    | –    | 11                                                | 7.5                | 2                  |
| FDS7788       | 30                            | Single                     | 0.004                                           | 0.005          | –    | –    | 37                                                | 18                 | 2.5                |
| FDS7766       | 30                            | Single                     | 0.005                                           | 0.006          | –    | –    | 43                                                | 17                 | 2.5                |
| FDS7764A      | 30                            | Single                     | –                                               | 0.0075         | –    | –    | 29                                                | 15                 | 2.5                |
| FDS7760A      | 30                            | Single                     | 0.0055                                          | 0.008          | –    | –    | 37                                                | 15                 | 2.5                |
| FDS6688       | 30                            | Single                     | 0.006                                           | 0.007          | –    | –    | 40                                                | 16                 | 2.5                |
| FDS6676       | 30                            | Single                     | 0.007                                           | 0.008          | –    | –    | 45                                                | 14.5               | 2.5                |
| FDS6688A      | 30                            | Single                     | Replaced by FDS6676                             |                |      |      |                                                   |                    |                    |
| FDS6682       | 30                            | Single                     | 0.0075                                          | 0.009          | –    | –    | 22                                                | 14                 | 2.5                |
| FDS6672A      | 30                            | Single                     | 0.008                                           | 0.0095         | –    | –    | 33                                                | 12.5               | 2.5                |
| FDS6670A      | 30                            | Single                     | 0.008                                           | 0.01           | –    | –    | 35                                                | 13                 | 2.5                |
| FDS6644       | 30                            | Single                     | 0.0085                                          | 0.0105         | –    | –    | 25                                                | 13                 | 2.5                |
| FDS7796       | 30                            | Single                     | 0.009                                           | 0.012          | –    | –    | 16                                                | 13                 | 2.5                |
| FDS6680A      | 30                            | Single                     | 0.0095                                          | 0.013          | –    | –    | 23                                                | 12.5               | 2.5                |
| FDS6680       | 30                            | Single                     | 0.01                                            | 0.015          | –    | –    | 19                                                | 11.5               | 2.5                |
| ISL9N311ASK8T | 30                            | Single                     | Replaced by FDS6680                             |                |      |      |                                                   |                    |                    |
| FDS6694       | 30                            | Single                     | 0.011                                           | 0.0135         | –    | –    | 13                                                | 12                 | 2.5                |
| FDS6294       | 30                            | Single                     | 0.0113                                          | 0.0144         | –    | –    | 10                                                | 13                 | 3                  |
| FDS6692       | 30                            | Single                     | 0.012                                           | 0.0145         | –    | –    | 18                                                | 12                 | 2.5                |
| FDS6690A      | 30                            | Single                     | 0.0125                                          | 0.017          | –    | –    | 17                                                | 11                 | 2.5                |
| ISL9N312ASK8T | 30                            | Single                     | Replaced by FDS6690A                            |                |      |      |                                                   |                    |                    |
| ISL9N316ASK8T | 30                            | Single                     | Replaced by FDS6690A                            |                |      |      |                                                   |                    |                    |
| FDS4410       | 30                            | Single                     | 0.0135                                          | 0.02           | –    | –    | 13                                                | 10                 | 2.5                |
| FDS6690       | 30                            | Single                     | 0.0135                                          | 0.02           | –    | –    | 13                                                | 10                 | 2.5                |
| FDS6614A      | 30                            | Single                     | 0.018                                           | 0.025          | –    | –    | 12                                                | 9.3                | 2.5                |
| FDS6678A      | 30                            | Single                     | 0.02                                            | 0.024          | –    | –    | 13                                                | 7.5                | 2.5                |
| FDS4488       | 30                            | Single                     | 0.022                                           | 0.03           | –    | –    | 9.5                                               | 7.9                | 2.5                |
| FDS6612A      | 30                            | Single                     | 0.022                                           | 0.03           | –    | –    | 9                                                 | 8.4                | 2.5                |

**SO-8 (Continued)**

| Part Number   | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|---------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|               |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| HUF76112SK8T  | 30                            | Single  | Replaced by FDS6612A                            |          |      |      |                                                   |                    |                    |
| HUF76121SK8   | 30                            | Single  | Replaced by FDS6612A                            |          |      |      |                                                   |                    |                    |
| ISL9N322ASK8T | 30                            | Single  | Replaced by FDS6612A                            |          |      |      |                                                   |                    |                    |
| FDS9412       | 30                            | Single  | 0.022                                           | 0.036    | —    | —    | 9                                                 | 7.9                | 2.5                |
| FDS6630A      | 30                            | Single  | 0.038                                           | 0.053    | —    | —    | 5                                                 | 6.5                | 2.5                |
| FDS6676S      | 30                            | SyncFET | 0.0052                                          | 0.006    | —    | —    | 43                                                | 14.5               | 2.5                |
| FDS7766S      | 30                            | SyncFET | 0.0055                                          | 0.0065   | —    | —    | 41                                                | 17                 | 2.5                |
| FDS7764S      | 30                            | SyncFET | 0.0075                                          | 0.009    | —    | —    | 25                                                | 13.5               | 2.5                |
| FDS6670S      | 30                            | SyncFET | 0.009                                           | 0.0125   | —    | —    | 24                                                | 13.5               | 2.5                |
| FDS6680S      | 30                            | SyncFET | 0.011                                           | 0.017    | —    | —    | 17                                                | 11.5               | 2.5                |
| FDS6690S      | 30                            | SyncFET | 0.016                                           | 0.025    | —    | —    | 17                                                | 10                 | 2.5                |
| FDS4672A      | 40                            | Single  | —                                               | 0.013    | —    | —    | 35                                                | 11                 | 2.5                |
| FDS4470       | 40                            | Single  | 0.009                                           | —        | —    | —    | 45                                                | 12.5               | 2.5                |
| FDS4770       | 40                            | Single  | 0.0105                                          | —        | —    | —    | 47                                                | 13.2               | 2.5                |
| FDS4780       | 40                            | Single  | 0.0105                                          | —        | —    | —    | 30                                                | 10.8               | 2.5                |
| FDS4480       | 40                            | Single  | 0.012                                           | —        | —    | —    | 29                                                | 10.8               | 2.5                |
| SSD2009A      | 50                            | Dual    | 0.13                                            | 0.2      | —    | —    | 19                                                | 3                  | 2                  |
| SSD2007A      | 50                            | Dual    | 0.3                                             | 0.5@5V   | —    | —    | 11.5                                              | 2                  | 2                  |
| HUFA76413DK8  | 60                            | Dual    | 0.049                                           | 0.056@5V | —    | —    | 18                                                | 4.8                | 2.5                |
| HUF76407DK8T  | 60                            | Dual    | 0.09                                            | 0.105    | —    | —    | 9.4                                               | 3.8                | 2.5                |
| HUFA76407DK8T | 60                            | Dual    | 0.09                                            | 0.105    | —    | —    | 9.4                                               | 3.8                | 2.5                |
| FDS9945       | 60                            | Dual    | 0.1                                             | 0.2      | —    | —    | 8                                                 | 3.5                | 2                  |
| SSD2025       | 60                            | Dual    | 0.1                                             | 0.2      | —    | —    | 15                                                | 3.3                | 2                  |
| FDS5670       | 60                            | Single  | 0.014                                           | —        | —    | —    | 49                                                | 10                 | 2.5                |
| FDS5680       | 60                            | Single  | 0.02                                            | —        | —    | —    | 30                                                | 8                  | 2.5                |
| FDS5690       | 60                            | Single  | 0.028                                           | —        | —    | —    | 23                                                | 7                  | 2.5                |
| RF1K49154     | 60                            | Single  | 0.13                                            | —        | —    | —    | 14                                                | 2                  | 2                  |
| FDS3890       | 80                            | Dual    | 0.044                                           | —        | —    | —    | 29                                                | 4.7                | 2                  |
| FDS3812       | 80                            | Dual    | 0.074                                           | —        | —    | —    | 13                                                | 3.4                | 2                  |
| FDS3570       | 80                            | Single  | 0.019                                           | —        | —    | —    | 54                                                | 9                  | 2.5                |
| FDS3580       | 80                            | Single  | 0.027                                           | —        | —    | —    | 34                                                | 7.6                | 2.5                |
| HUF75531SK8   | 80                            | Single  | 0.03                                            | —        | —    | —    | 37                                                | 6                  | 2.5                |

**SO-8 (Continued)**

| Part Number                                | BV <sub>DSS</sub><br>Min. (V) | Config.       | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |                |                |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------------------|-------------------------------|---------------|-------------------------------------------------|----------------|----------------|------|---------------------------------------|--------------------|--------------------|
|                                            |                               |               | 10V                                             | 4.5V           | 2.5V           | 1.8V |                                       |                    |                    |
| HUFA75531SK8                               | 80                            | Single        | 0.03                                            | —              | —              | —    | 37                                    | 6                  | 2.5                |
| FDS3590                                    | 80                            | Single        | 0.037                                           | —              | —              | —    | 23                                    | 6.5                | 2.5                |
| FDS3512                                    | 80                            | Single        | 0.07                                            | —              | —              | —    | 13                                    | 4                  | 2.5                |
| FDS3992                                    | 100                           | Dual          | 0.062                                           | —              | —              | —    | 11                                    | 4.5                | 2.5                |
| FDS3912                                    | 100                           | Dual          | 0.125                                           | —              | —              | —    | 14                                    | 3                  | 2                  |
| FDS3601                                    | 100                           | Dual          | 0.48                                            | —              | —              | —    | 3.7                                   | 1.3                | 2                  |
| FDS3672                                    | 100                           | Single        | 0.022                                           | —              | —              | —    | 28                                    | 7.5                | 2.5                |
| FDS3670                                    | 100                           | Single        | Replaced by FDS3682                             |                |                |      |                                       |                    |                    |
| FDS3680                                    | 100                           | Single        | Replaced by FDS3682                             |                |                |      |                                       |                    |                    |
| FDS3682                                    | 100                           | Single        | 0.035                                           | —              | —              | —    | 19                                    | 6                  | 2.5                |
| HUF75631SK8                                | 100                           | Single        | 0.039                                           | —              | —              | —    | 35                                    | 5.5                | 2.5                |
| HUFA75631SK8                               | 100                           | Single        | 0.039                                           | —              | —              | —    | 35                                    | 5.5                | 2.5                |
| FDS3690                                    | 100                           | Single        | Replaced by FDS3692                             |                |                |      |                                       |                    |                    |
| FDS3692                                    | 100                           | Single        | 0.06                                            | —              | —              | —    | 11                                    | 4.5                | 2.5                |
| FDS3612                                    | 100                           | Single        | 0.12                                            | —              | —              | —    | 14                                    | 3.4                | 2.5                |
| FDS2572                                    | 150                           | Single        | 0.047                                           | —              | —              | —    | 29                                    | 4.9                | 2.5                |
| FDS2582                                    | 150                           | Single        | 0.066                                           | —              | —              | —    | 11                                    | 4.5                | 2.5                |
| FDS2570                                    | 150                           | Single        | Replaced by HUF75831SK8T                        |                |                |      |                                       |                    |                    |
| HUF75831SK8T                               | 150                           | Single        | 0.095                                           | —              | —              | —    | 35                                    | 3                  | 2.5                |
| HUFA75831SK8T                              | 150                           | Single        | 0.095                                           | —              | —              | —    | 35                                    | 3                  | 2.5                |
| FDS2670                                    | 200                           | Single        | 0.13                                            | —              | —              | —    | 27                                    | 3                  | 2.5                |
| FQS4901                                    | 400                           | Dual          | 4.2                                             | —              | —              | —    | 5.8                                   | 0.45               | 2                  |
| FQS4903                                    | 500                           | Dual          | 6.2                                             | —              | —              | —    | 6.3                                   | 0.37               | 2                  |
| <b>SO-8 Complementary N- and P-Channel</b> |                               |               |                                                 |                |                |      |                                       |                    |                    |
| FDS8928A                                   | 30<br>-20                     | Complementary | —                                               | 0.03<br>0.055  | 0.038<br>0.072 | —    | 19.8<br>20                            | 5.5<br>4           | 2                  |
| NDH8321C                                   | 30                            | Complementary | Replaced by FDS8928A                            |                |                |      |                                       |                    |                    |
| FDS4501H                                   | 30<br>-20                     | Complementary | 0.018                                           | 0.046<br>0.023 | 0.063          | —    | 17<br>13                              | 9.3<br>5.6         | 2.5                |
| FDS8958A                                   | 30<br>-30                     | Complementary | 0.028<br>0.052                                  | 0.04<br>0.08   | —              | —    | 18<br>19                              | 7<br>5             | 2                  |
| NDH8521C                                   | 30                            | Complementary | Replaced by FDS8958A                            |                |                |      |                                       |                    |                    |

**SO-8 (Continued)**

| Part Number           | BV <sub>DSS</sub><br>Min. (V) | Config.       | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |                  |       |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-----------------------|-------------------------------|---------------|-------------------------------------------------|------------------|-------|------|---------------------------------------|--------------------|--------------------|
|                       |                               |               | 10V                                             | 4.5V             | 2.5V  | 1.8V |                                       |                    |                    |
| SI4532DY              | 30<br>-30                     | Complementary | 0.065<br>0.085                                  | 0.095<br>0.19    | —     | —    | 3.7<br>5                              | 3.9<br>3.5         | 2                  |
| NDS9952A              | 30<br>-30                     | Complementary | 0.08<br>0.13                                    | —                | —     | —    | 9.5<br>10                             | 3.7<br>2.9         | 2                  |
| FDS8333C              | 30<br>-30                     | Complementary | 0.08<br>0.13                                    | 0.13<br>0.2      | —     | —    | 4.7<br>4.1                            | 4.1<br>3.4         | 2                  |
| NDS9958               | 30                            | Complementary | Replaced by FDS8333C                            |                  |       |      |                                       |                    |                    |
| FDS4559               | 60<br>-60                     | Complementary | 0.055<br>0.105                                  | 0.075<br>0.135   | —     | —    | 12.5<br>15                            | 4.5<br>3.5         | 2                  |
| FQS4900               | 60<br>-300                    | Complementary | 0.55<br>15.5                                    | 0.65@5V<br>16@5V | —     | —    | 1.6<br>3.6                            | 1.3<br>0.3         | 2                  |
| <b>SO-8 P-Channel</b> |                               |               |                                                 |                  |       |      |                                       |                    |                    |
| NDS9948               | -60                           | Dual          | 0.25                                            | 0.5              | —     | —    | 9                                     | 2.3                | 2                  |
| SSD2011A              | -60                           | Dual          | 0.28                                            | 0.5              | —     | —    | 23                                    | 2                  | 2                  |
| FDS4675               | -40                           | Single        | 0.013                                           | 0.017            | —     | —    | 40                                    | 11                 | 2.4                |
| FDS4935               | -30                           | Dual          | 0.023                                           | 0.035            | —     | —    | 15                                    | 7                  | 2                  |
| FDS4935A              | -30                           | Dual          | 0.023                                           | 0.035            | —     | —    | 15                                    | 7                  | 2                  |
| FDS6975               | -30                           | Dual          | 0.032                                           | 0.045            | —     | —    | 14.5                                  | 6                  | 2                  |
| FDS8947A              | -30                           | Dual          | 0.052                                           | 0.08             | —     | —    | 19                                    | 4                  | 2                  |
| SI4953DY              | -30                           | Dual          | 0.053                                           | 0.095            | —     | —    | 8                                     | 4.9                | 2                  |
| FDS6993               | -30<br>-12                    | Dual          | 0.055                                           | 0.017<br>0.085   | 0.024 | 0.03 | —                                     | 4.3<br>6.8         | 2                  |
| FDS4953               | -30                           | Dual          | 0.055                                           | 0.095            | —     | —    | 6                                     | 5                  | 2                  |
| FDS9953A              | -30                           | Dual          | 0.13                                            | 0.2              | —     | —    | 2.5                                   | 2.9                | 2                  |
| NDS9953A              | -30                           | Dual          | Replaced by FDS9953A                            |                  |       |      |                                       |                    |                    |
| FDS7779Z              | -30                           | Single        | 0.0072                                          | 0.0115           | —     | —    | 70                                    | 16                 | 3                  |
| FDS6679               | -30                           | Single        | 0.009                                           | 0.013            | —     | —    | 71                                    | 13                 | 2.5                |
| FDS6679Z              | -30                           | Single        | 0.009                                           | 0.013            | —     | —    | 67                                    | 13                 | 2.5                |
| FDS6675A              | -30                           | Single        | 0.013                                           | 0.019            | —     | —    | 24                                    | 11                 | 2.5                |
| FDS6675               | -30                           | Single        | 0.014                                           | 0.02             | —     | —    | 30                                    | 11                 | 2.5                |
| FDS4435A              | -30                           | Single        | 0.017                                           | 0.025            | —     | —    | 21                                    | 9                  | 2.5                |
| FDS4435               | -30                           | Single        | 0.02                                            | 0.035            | —     | —    | 17                                    | 8.8                | 2.5                |
| FDS6685               | -30                           | Single        | 0.02                                            | 0.035            | —     | —    | 19                                    | 8.8                | 2.5                |
| FDS6609A              | -30                           | Single        | 0.032                                           | 0.05             | —     | —    | 18                                    | 6                  | 2.5                |

**SO-8 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |        |       | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|--------|--------|-------|---------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V   | 2.5V   | 1.8V  |                                       |                    |                    |
| FDS9435A    | -30                           | Single  | 0.05                                            | 0.08   | —      | —     | 10                                    | 5.3                | 2.5                |
| NDS9435A    | -30                           | Single  | 0.05                                            | 0.08   | —      | —     | 10                                    | 5.3                | 2.5                |
| NDS9430     | -30                           | Single  | 0.06                                            | 0.1    | —      | —     | 10                                    | 5.3                | 2.5                |
| FDS9400A    | -30                           | Single  | 0.13                                            | 0.2    | —      | —     | 2.4                                   | 3.4                | 2.5                |
| NDS9400A    | -30                           | Single  | Replaced by FDS9400A                            |        |        |       |                                       |                    |                    |
| FDS6875     | -20                           | Dual    | —                                               | 0.03   | 0.04   | —     | 23                                    | 6                  | 2                  |
| FDS8934A    | -20                           | Dual    | —                                               | 0.055  | 0.072  | —     | 20                                    | 4                  | 2                  |
| FDS9933A    | -20                           | Dual    | —                                               | 0.075  | 0.105  | —     | 8                                     | 3.8                | 2                  |
| NDS9933A    | -20                           | Dual    | —                                               | 0.14   | 0.2    | —     | 6                                     | 2.8                | 2                  |
| RF1K49093   | -20                           | Dual    | Replaced by NDS9933A                            |        |        |       |                                       |                    |                    |
| FDS4465     | -20                           | Single  | —                                               | 0.0085 | 0.0105 | 0.014 | 86                                    | 13.5               | 2.5                |
| FDS6575     | -20                           | Single  | —                                               | 0.013  | 0.017  | —     | 50                                    | 10                 | 2.5                |
| FDS6576     | -20                           | Single  | —                                               | 0.014  | 0.02   | —     | 43                                    | 11                 | 2.5                |
| FDS6375     | -20                           | Single  | —                                               | 0.024  | 0.032  | —     | 23                                    | 8                  | 2.5                |
| FDS8433A    | -20                           | Single  | —                                               | 0.047  | 0.07   | —     | 20                                    | 5                  | 2.5                |
| FDS9431A    | -20                           | Single  | —                                               | 0.13   | 0.18   | —     | 6                                     | 3.5                | 2.5                |

**TO-251 (IPAK)**

| Part Number                    | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |       |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------|-------------------------------|---------|-------------------------------------------------|----------|-------|------|---------------------------------------------------|--------------------|--------------------|
|                                |                               |         | 10V                                             | 4.5V     | 2.5V  | 1.8V |                                                   |                    |                    |
| <b>TO-251 (IPAK) N-Channel</b> |                               |         |                                                 |          |       |      |                                                   |                    |                    |
| FDU3706                        | 20                            | Single  | 0.009                                           | 0.011    | 0.016 | –    | 16                                                | 50                 | 44                 |
| FDU6512A                       | 20                            | Single  | –                                               | 0.021    | 0.031 | –    | 12                                                | 36                 | 43                 |
| ISL9N306AD3                    | 30                            | Single  | 0.006                                           | 0.0095   | –     | –    | 30                                                | 50                 | 125                |
| FDU6682                        | 30                            | Single  | 0.0062                                          | 0.008    | –     | –    | 24                                                | 75                 | 71                 |
| ISL9N308AD3                    | 30                            | Single  | 0.008                                           | –        | –     | –    | 24                                                | 50                 | 100                |
| FDU6696                        | 30                            | Single  | 0.008                                           | 0.0107   | –     | –    | 17                                                | 50                 | 52                 |
| FDU6644                        | 30                            | Single  | 0.0085                                          | 0.0105   | –     | –    | 25                                                | 67                 | 68                 |
| FDU6296                        | 30                            | Single  | 0.0088                                          | 0.0113   | –     | –    | 22.5                                              | 50                 | 52                 |
| FDU6680A                       | 30                            | Single  | 0.0095                                          | 0.013    | –     | –    | 23                                                | 56                 | 60                 |
| FDU7030BL                      | 30                            | Single  | 0.0095                                          | 0.013    | –     | –    | 23                                                | 56                 | 60                 |
| FDU6692                        | 30                            | Single  | 0.012                                           | 0.0145   | –     | –    | 18                                                | 54                 | 57                 |
| ISL9N312AD3                    | 30                            | Single  | 0.012                                           | 0.02     | –     | –    | 13                                                | 50                 | 75                 |
| ISL9N315AD3                    | 30                            | Single  | 0.015                                           | 0.028    | –     | –    | 18                                                | 30                 | 55                 |
| FDU6030BL                      | 30                            | Single  | 0.016                                           | 0.022    | –     | –    | 22                                                | 42                 | 50                 |
| FDU6612A                       | 30                            | Single  | 0.02                                            | 0.028    | –     | –    | 9                                                 | 30                 | 36                 |
| HUFA75329D3                    | 55                            | Single  | 0.026                                           | –        | –     | –    | 32                                                | 20                 | 128                |
| HUFA75321D3                    | 55                            | Single  | 0.036                                           | –        | –     | –    | 21                                                | 20                 | 93                 |
| HUFA75309D3                    | 55                            | Single  | 0.07                                            | –        | –     | –    | 11                                                | 19                 | 55                 |
| HUFA75307D3                    | 55                            | Single  | 0.09                                            | –        | –     | –    | 9                                                 | 15                 | 45                 |
| HUFA76429D3                    | 60                            | Single  | 0.023                                           | 0.027    | –     | –    | 38                                                | 20                 | 110                |
| HUF76423D3                     | 60                            | Single  | 0.032                                           | 0.037    | –     | –    | 28                                                | 20                 | 85                 |
| HUFA76423D3                    | 60                            | Single  | 0.032                                           | 0.037    | –     | –    | 28                                                | 20                 | 85                 |
| HUF76419D3                     | 60                            | Single  | 0.037                                           | 0.043    | –     | –    | 23                                                | 20                 | 75                 |
| HUFA76419D3                    | 60                            | Single  | 0.037                                           | 0.043    | –     | –    | 23                                                | 20                 | 75                 |
| FQU30N06L                      | 60                            | Single  | 0.039                                           | 0.047@5V | –     | –    | 15                                                | 24                 | 44                 |
| FQU30N06                       | 60                            | Single  | 0.045                                           | –        | –     | –    | 19                                                | 22.7               | 44                 |
| HUF76413D3                     | 60                            | Single  | 0.049                                           | 0.056    | –     | –    | 17                                                | 20                 | 60                 |
| HUFA76413D3                    | 60                            | Single  | 0.049                                           | 0.056    | –     | –    | 17                                                | 20                 | 60                 |
| FQU20N06L                      | 60                            | Single  | 0.06                                            | 0.075@5V | –     | –    | 9.5                                               | 17.2               | 38                 |
| FQU20N06                       | 60                            | Single  | 0.063                                           | –        | –     | –    | 11.5                                              | 16.8               | 38                 |
| HUF76409D3                     | 60                            | Single  | 0.063                                           | 0.071    | –     | –    | 12                                                | 18                 | 49                 |

**TO-251 (IPAK) (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| HUFA76409D3 | 60                            | Single  | 0.063                                           | 0.071    | –    | –    | 12                                                | 18                 | 49                 |
| HUF76407D3  | 60                            | Single  | 0.092                                           | 0.107    | –    | –    | 9.4                                               | 12                 | 38                 |
| HUFA76407D3 | 60                            | Single  | 0.092                                           | 0.107    | –    | –    | 9.4                                               | 12                 | 38                 |
| FQU13N06L   | 60                            | Single  | 0.11                                            | 0.14@5V  | –    | –    | 4.8                                               | 11                 | 28                 |
| FQU13N06    | 60                            | Single  | 0.14                                            | –        | –    | –    | 5.8                                               | 10                 | 28                 |
| FDU3580     | 80                            | Single  | 0.029                                           | –        | –    | –    | 35                                                | 7.7                | 42                 |
| FQU24N08    | 80                            | Single  | 0.06                                            | –        | –    | –    | 19                                                | 19.6               | 50                 |
| FQU17N08L   | 80                            | Single  | 0.1                                             | 0.115@5V | –    | –    | 8.8                                               | 12.9               | 40                 |
| FQU9N08     | 80                            | Single  | 0.21                                            | –        | –    | –    | 5.9                                               | 7.4                | 25                 |
| FQU9N08L    | 80                            | Single  | 0.21                                            | 0.23@5V  | –    | –    | 4.7                                               | 7.4                | 25                 |
| HUF76629D3  | 100                           | Single  | 0.052                                           | 0.054    | –    | –    | 38                                                | 20                 | 110                |
| HUFA76629D3 | 100                           | Single  | 0.052                                           | 0.054    | –    | –    | 38                                                | 20                 | 110                |
| HUF76619D3  | 100                           | Single  | 0.085                                           | 0.087    | –    | –    | 24                                                | 18                 | 75                 |
| HUFA76619D3 | 100                           | Single  | 0.085                                           | 0.087    | –    | –    | 24                                                | 18                 | 75                 |
| HUF75617D3  | 100                           | Single  | 0.09                                            | –        | –    | –    | 18                                                | 16                 | 64                 |
| HUFA75617D3 | 100                           | Single  | 0.09                                            | –        | –    | –    | 18                                                | 16                 | 64                 |
| FQU19N10    | 100                           | Single  | 0.1                                             | –        | –    | –    | 19                                                | 15.6               | 50                 |
| FQU19N10L   | 100                           | Single  | 0.1                                             | 0.11@5V  | –    | –    | 14                                                | 15.6               | 50                 |
| IRLU130A    | 100                           | Single  | –                                               | 0.12@5V  | –    | –    | 16.9                                              | 13                 | 46                 |
| IRFU130A    | 100                           | Single  | 0.11                                            | –        | –    | –    | 27                                                | 13                 | 41                 |
| HUF76609D3  | 100                           | Single  | 0.16                                            | 0.165    | –    | –    | 13                                                | 10                 | 49                 |
| HUFA76609D3 | 100                           | Single  | 0.16                                            | 0.165    | –    | –    | 13                                                | 10                 | 49                 |
| FQU13N10    | 100                           | Single  | 0.18                                            | –        | –    | –    | 12                                                | 10                 | 40                 |
| FQU13N10L   | 100                           | Single  | 0.18                                            | 0.2@5V   | –    | –    | 8.7                                               | 10                 | 40                 |
| IRLU120A    | 100                           | Single  | –                                               | 0.22@5V  | –    | –    | 10.2                                              | 8.4                | 35                 |
| IRFU120A    | 100                           | Single  | 0.2                                             | –        | –    | –    | 16                                                | 8.4                | 32                 |
| FQU7N10     | 100                           | Single  | 0.35                                            | –        | –    | –    | 5.8                                               | 5.8                | 25                 |
| FQU7N10L    | 100                           | Single  | 0.35                                            | 0.38@5V  | –    | –    | 4.6                                               | 5.8                | 25                 |
| IRLU110A    | 100                           | Single  | –                                               | 0.44@5V  | –    | –    | 5.5                                               | 4.7                | 22                 |
| IRFU110A    | 100                           | Single  | 0.4                                             | –        | –    | –    | 8.5                                               | 4.7                | 20                 |
| FDU2572     | 150                           | Single  | 0.056                                           | –        | –    | –    | 27                                                | 29                 | 135                |
| HUF75829D3  | 150                           | Single  | 0.11                                            | –        | –    | –    | 31                                                | 18                 | 110                |

**TO-251 (IPAK) (Continued)**

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|-------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                   |                    |                    |
| HUF75823D3  | 150                           | Single  | 0.15                                            | —       | —    | —    | 23                                                | 14                 | 85                 |
| FQU14N15    | 150                           | Single  | 0.21                                            | —       | —    | —    | 18                                                | 10                 | 50                 |
| FQU9N15     | 150                           | Single  | 0.4                                             | —       | —    | —    | 10                                                | 7                  | 45                 |
| FQU5N15     | 150                           | Single  | 0.8                                             | —       | —    | —    | 5.4                                               | 4.3                | 30                 |
| FQU18N20V2  | 200                           | Single  | 0.14                                            | —       | —    | —    | 20                                                | 15                 | 83                 |
| FQU12N20    | 200                           | Single  | 0.28                                            | —       | —    | —    | 18                                                | 9                  | 55                 |
| FQU12N20L   | 200                           | Single  | 0.28                                            | 0.32@5V | —    | —    | 16                                                | 9                  | 55                 |
| FQU10N20    | 200                           | Single  | 0.36                                            | —       | —    | —    | 13.5                                              | 7.6                | 51                 |
| FQU10N20L   | 200                           | Single  | 0.36                                            | 0.38@5V | —    | —    | 13                                                | 7.6                | 51                 |
| IRLU230A    | 200                           | Single  | —                                               | 0.4@5V  | —    | —    | 18.6                                              | 7.5                | 48                 |
| IRFU230B    | 200                           | Single  | 0.4                                             | —       | —    | —    | 22                                                | 7.5                | 50                 |
| FQU7N20     | 200                           | Single  | 0.69                                            | —       | —    | —    | 8                                                 | 5.3                | 45                 |
| FQU7N20L    | 200                           | Single  | 0.75                                            | 0.78@5V | —    | —    | 6.8                                               | 5.5                | 45                 |
| IRFU220B    | 200                           | Single  | 0.8                                             | —       | —    | —    | 12                                                | 4.6                | 40                 |
| FQU5N20     | 200                           | Single  | 1.2                                             | —       | —    | —    | 6                                                 | 3.8                | 37                 |
| FQU5N20L    | 200                           | Single  | 1.2                                             | 1.25@5V | —    | —    | 4.8                                               | 3.8                | 37                 |
| FQU4N20L    | 200                           | Single  | 1.35                                            | 1.4@5V  | —    | —    | 4                                                 | 3.2                | 30                 |
| IRLU210A    | 200                           | Single  | —                                               | 1.5@5V  | —    | —    | 6.1                                               | 2.7                | 21                 |
| FQU4N20     | 200                           | Single  | 1.4                                             | —       | —    | —    | 5                                                 | 3                  | 30                 |
| IRFU210B    | 200                           | Single  | 1.5                                             | —       | —    | —    | 7.2                                               | 2.7                | 26                 |
| FQU9N25     | 250                           | Single  | 0.42                                            | —       | —    | —    | 15.5                                              | 7.4                | 55                 |
| IRFU234B    | 250                           | Single  | 0.45                                            | —       | —    | —    | 29                                                | 6.6                | 49                 |
| FQU8N25     | 250                           | Single  | 0.55                                            | —       | —    | —    | 12                                                | 6.2                | 50                 |
| FQU6N25     | 250                           | Single  | 1                                               | —       | —    | —    | 6.6                                               | 4.4                | 45                 |
| IRFU224B    | 250                           | Single  | 1.1                                             | —       | —    | —    | 13.5                                              | 3.8                | 42                 |
| FQU4N25     | 250                           | Single  | 1.75                                            | —       | —    | —    | 4.3                                               | 3                  | 37                 |
| IRFU214B    | 250                           | Single  | 2                                               | —       | —    | —    | 8.1                                               | 2.2                | 25                 |
| FQU3N25     | 250                           | Single  | 2.2                                             | —       | —    | —    | 4                                                 | 2.4                | 30                 |
| FQU3N30     | 300                           | Single  | 2.2                                             | —       | —    | —    | 5.5                                               | 2.4                | 30                 |
| FQU2N30     | 300                           | Single  | 3.7                                             | —       | —    | —    | 3.7                                               | 1.7                | 25                 |
| IRFU330B    | 400                           | Single  | 1                                               | —       | —    | —    | 25                                                | 4.5                | 48                 |
| FQU5N40     | 400                           | Single  | 1.6                                             | —       | —    | —    | 10                                                | 3.4                | 45                 |



**TO-251 (IPAK) (Continued)**

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|--------------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------------------|--------------------|--------------------|
|                                |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                   |                    |                    |
| IRFU320B                       | 400                           | Single  | 1.75                                            | —    | —    | —    | 14                                                | 3.1                | 41                 |
| FQU3N40                        | 400                           | Single  | 3.4                                             | —    | —    | —    | 6                                                 | 2                  | 30                 |
| IRFU310B                       | 400                           | Single  | 3.4                                             | —    | —    | —    | 7.7                                               | 1.7                | 26                 |
| FQU2N40                        | 400                           | Single  | 5.8                                             | —    | —    | —    | 4                                                 | 1.4                | 25                 |
| IRFU430B                       | 500                           | Single  | 1.5                                             | —    | —    | —    | 25                                                | 3.5                | 48                 |
| FQU5N50                        | 500                           | Single  | 1.8                                             | —    | —    | —    | 13                                                | 3.5                | 50                 |
| IRFU420B                       | 500                           | Single  | 2.6                                             | —    | —    | —    | 14                                                | 2.3                | 41                 |
| FQU4N50                        | 500                           | Single  | 2.7                                             | —    | —    | —    | 10                                                | 2.6                | 45                 |
| FQU2N50B                       | 500                           | Single  | 5.3                                             | —    | —    | —    | 6                                                 | 1.6                | 1.5                |
| SSU1N50B                       | 500                           | Single  | 5.5                                             | —    | —    | —    | 8.3                                               | 1.3                | 26                 |
| FQU1N50                        | 500                           | Single  | 9                                               | —    | —    | —    | 4                                                 | 1.1                | 25                 |
| FQU1N50B                       | 500                           | Single  | 9                                               | —    | —    | —    | 4                                                 | 1.1                | 1.5                |
| IRFU410B                       | 500                           | Single  | 10                                              | —    | —    | —    | 5.1                                               | 0.9                | 20                 |
| SSU4N60B                       | 600                           | Single  | 2.5                                             | —    | —    | —    | 22                                                | 2.8                | 49                 |
| FQU3N60                        | 600                           | Single  | 3.6                                             | —    | —    | —    | 10                                                | 2.4                | 50                 |
| FQU2N60                        | 600                           | Single  | 4.7                                             | —    | —    | —    | 9                                                 | 2                  | 45                 |
| SSU2N60B                       | 600                           | Single  | 5                                               | —    | —    | —    | 12.5                                              | 1.8                | 44                 |
| FQU1N60                        | 600                           | Single  | 11.5                                            | —    | —    | —    | 5                                                 | 1                  | 30                 |
| SSU1N60B                       | 600                           | Single  | 12                                              | —    | —    | —    | 5.9                                               | 0.9                | 28                 |
| FQU2N80                        | 800                           | Single  | 6.3                                             | —    | —    | —    | 12                                                | 1.8                | 50                 |
| FQU1N80                        | 800                           | Single  | 20                                              | —    | —    | —    | 5.5                                               | 1                  | 45                 |
| FQU2N90                        | 900                           | Single  | 7.2                                             | —    | —    | —    | 12                                                | 1.7                | 50                 |
| <b>TO-251 (IPAK) P-Channel</b> |                               |         |                                                 |      |      |      |                                                   |                    |                    |
| FQU3P50                        | -500                          | Single  | 4.9                                             | —    | —    | —    | 18                                                | 2.1                | 50                 |
| FQU1P50                        | -500                          | Single  | 10.5                                            | —    | —    | —    | 11                                                | 1.2                | 38                 |
| FQU4P40                        | -400                          | Single  | 3.1                                             | —    | —    | —    | 18                                                | 2.7                | 50                 |
| FQU2P40                        | -400                          | Single  | 6.5                                             | —    | —    | —    | 10                                                | 1.6                | 38                 |
| SFU9310                        | -400                          | Single  | 8                                               | —    | —    | —    | 17                                                | 1.5                | 36                 |
| FQU6P25                        | -250                          | Single  | 1.1                                             | —    | —    | —    | 21                                                | 4.7                | 55                 |
| FQU4P25                        | -250                          | Single  | 2.1                                             | —    | —    | —    | 10                                                | 3.1                | 45                 |
| SFU9224                        | -250                          | Single  | 2.4                                             | —    | —    | —    | 16                                                | 2.5                | 30                 |
| FQU2P25                        | -250                          | Single  | 4                                               | —    | —    | —    | 6.5                                               | 2                  | 37                 |

**TO-251 (IPAK) (Continued)**

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|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                   |                    |                    |
| SFU9214     | -250                          | Single  | 4                                               | —    | —    | —    | 9                                                 | 1.5                | 19                 |
| SFU9230B    | -200                          | Single  | 0.6                                             | —    | —    | —    | 29                                                | 5.4                | 49                 |
| FQU7P20     | -200                          | Single  | 0.69                                            | —    | —    | —    | 19                                                | 5.7                | 55                 |
| FQU5P20     | -200                          | Single  | 1.4                                             | —    | —    | —    | 10                                                | 3.7                | 45                 |
| SFU9220     | -200                          | Single  | 1.5                                             | —    | —    | —    | 15                                                | 3.1                | 30                 |
| SFU9210     | -200                          | Single  | 3                                               | —    | —    | —    | 9                                                 | 1.6                | 19                 |
| FQU12P10    | -100                          | Single  | 0.29                                            | —    | —    | —    | 21                                                | 9.4                | 50                 |
| SFU9130     | -100                          | Single  | 0.3                                             | —    | —    | —    | 30                                                | 9.8                | 57                 |
| FQU8P10     | -100                          | Single  | 0.53                                            | —    | —    | —    | 12                                                | 6.6                | 44                 |
| SFU9120     | -100                          | Single  | 0.6                                             | —    | —    | —    | 16                                                | 4.9                | 32                 |
| FQU17P06    | -60                           | Single  | 0.135                                           | —    | —    | —    | 21                                                | 12                 | 44                 |
| SFU9034     | -60                           | Single  | 0.14                                            | —    | —    | —    | 30                                                | 14                 | 49                 |
| FQU11P06    | -60                           | Single  | 0.185                                           | —    | —    | —    | 13                                                | 9.4                | 38                 |
| SFU9024     | -60                           | Single  | 0.28                                            | —    | —    | —    | 15                                                | 7.8                | 32                 |
| SFU2955     | -60                           | Single  | 0.3                                             | —    | —    | —    | 15                                                | 7.6                | 32                 |
| FQU7P06     | -60                           | Single  | 0.45                                            | —    | —    | —    | 6.3                                               | 5.4                | 28                 |
| SFU9014     | -60                           | Single  | 0.5                                             | —    | —    | —    | 9                                                 | 5.3                | 24                 |

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| Part Number                    | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |       |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------|-------------------------------|---------|-------------------------------------------------|--------|-------|------|---------------------------------------------------|--------------------|--------------------|
|                                |                               |         | 10V                                             | 4.5V   | 2.5V  | 1.8V |                                                   |                    |                    |
| <b>TO-252 (DPAK) N-Channel</b> |                               |         |                                                 |        |       |      |                                                   |                    |                    |
| FDD3706                        | 20                            | Single  | 0.009                                           | 0.011  | 0.016 | –    | 16                                                | 50                 | 44                 |
| FDD6512A                       | 20                            | Single  | –                                               | 0.021  | 0.031 | –    | 12                                                | 36                 | 43                 |
| FDD6530A                       | 20                            | Single  | –                                               | 0.032  | 0.047 | –    | 6.5                                               | 21                 | 33                 |
| FDD6670AL                      | 30                            | Single  | 0.005                                           | 0.006  | –     | –    | 37                                                | 84                 | 83                 |
| FDD6688                        | 30                            | Single  | 0.005                                           | 0.006  | –     | –    | 37                                                | 84                 | 83                 |
| ISL9N306AD3ST                  | 30                            | Single  | 0.006                                           | 0.0095 | –     | –    | 30                                                | 50                 | 125                |
| FDD6682                        | 30                            | Single  | 0.0062                                          | 0.008  | –     | –    | 24                                                | 75                 | 71                 |
| ISL9N307AD3ST                  | 30                            | Single  | 0.007                                           | 0.0115 | –     | –    | 28                                                | 50                 | 100                |
| FDD6676                        | 30                            | Single  | 0.0075                                          | 0.0085 | –     | –    | 45                                                | 78                 | 83                 |
| FDD6672A                       | 30                            | Single  | 0.008                                           | 0.0095 | –     | –    | 33                                                | 65                 | 70                 |
| FDD6670A                       | 30                            | Single  | 0.008                                           | 0.01   | –     | –    | 35                                                | 66                 | 70                 |
| FDD6696                        | 30                            | Single  | 0.008                                           | 0.0107 | –     | –    | 17                                                | 50                 | 52                 |
| FDD6644                        | 30                            | Single  | 0.0085                                          | 0.0105 | –     | –    | 25                                                | 67                 | 68                 |
| FDD6296                        | 30                            | Single  | 0.0088                                          | 0.0113 | –     | –    | 22.5                                              | 50                 | 52                 |
| FDD6680A                       | 30                            | Single  | 0.0095                                          | 0.013  | –     | –    | 23                                                | 56                 | 60                 |
| FDD7030BL                      | 30                            | Single  | 0.0095                                          | 0.013  | –     | –    | 23                                                | 56                 | 60                 |
| ISL9N310AD3ST                  | 30                            | Single  | 0.01                                            | 0.015  | –     | –    | 17                                                | 35                 | 70                 |
| FDD6680                        | 30                            | Single  | 0.011                                           | 0.017  | –     | –    | 17                                                | 55                 | 60                 |
| FDD6692                        | 30                            | Single  | 0.012                                           | 0.0145 | –     | –    | 18                                                | 54                 | 57                 |
| ISL9N312AD3ST                  | 30                            | Single  | 0.012                                           | 0.02   | –     | –    | 13                                                | 50                 | 75                 |
| ISL9N316AD3ST                  | 30                            | Single  | Replaced by ISL9N312AD3ST                       |        |       |      |                                                   |                    |                    |
| FDD6035AL                      | 30                            | Single  | 0.0125                                          | 0.016  | –     | –    | 17                                                | 46                 | 50                 |
| FDD6690A                       | 30                            | Single  | 0.0125                                          | 0.016  | –     | –    | 17                                                | 46                 | 50                 |
| FDD6030L                       | 30                            | Single  | 0.0145                                          | 0.021  | –     | –    | 36                                                | 50                 | 60                 |
| ISL9N315AD3ST                  | 30                            | Single  | 0.015                                           | 0.028  | –     | –    | 18                                                | 30                 | 55                 |
| FDD6030BL                      | 30                            | Single  | 0.016                                           | 0.022  | –     | –    | 22                                                | 42                 | 50                 |
| ISL9N318AD3ST                  | 30                            | Single  | 0.018                                           | 0.03   | –     | –    | 8.6                                               | 30                 | 55                 |
| FDD6612A                       | 30                            | Single  | 0.02                                            | 0.028  | –     | –    | 9                                                 | 30                 | 36                 |
| RFD20N03SM                     | 30                            | Single  | Replaced by FDD6612A                            |        |       |      |                                                   |                    |                    |
| ISL9N327AD3ST                  | 30                            | Single  | 0.027                                           | 0.04   | –     | –    | 8.7                                               | 20                 | 50                 |
| FDD6630A                       | 30                            | Single  | 0.035                                           | 0.05   | –     | –    | 5                                                 | 21                 | 28                 |

**TO-252 (Continued)**

| Part Number   | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|---------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|               |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| FDD6632       | 30                            | Single  | 0.09                                            | 0.104    | —    | —    | 2.6                                               | 9                  | 15                 |
| FDD6676S      | 30                            | SyncFET | 0.006                                           | 0.0071   | —    | —    | 41                                                | 78                 | 70                 |
| FDD6644S      | 30                            | SyncFET | 0.0085                                          | 0.01     | —    | —    | 25                                                | 66                 | 57                 |
| FDD6670S      | 30                            | SyncFET | 0.009                                           | 0.0125   | —    | —    | 17                                                | 64                 | 70                 |
| FDD6680S      | 30                            | SyncFET | 0.011                                           | 0.017    | —    | —    | 17                                                | 55                 | 60                 |
| FDD6690S      | 30                            | SyncFET | 0.0167                                          | 0.0245   | —    | —    | 17                                                | 40                 | 50                 |
| RFD16N05LSM   | 50                            | Single  | —                                               | 0.047    | —    | —    | 61                                                | 16                 | 60                 |
| HUFA75329D3S  | 55                            | Single  | 0.026                                           | —        | —    | —    | 32                                                | 20                 | 128                |
| HUFA75321D3S  | 55                            | Single  | 0.036                                           | —        | —    | —    | 21                                                | 20                 | 93                 |
| HUF75309D3S   | 55                            | Single  | 0.07                                            | —        | —    | —    | 11                                                | 19                 | 55                 |
| HUFA75309D3S  | 55                            | Single  | 0.07                                            | —        | —    | —    | 11                                                | 19                 | 55                 |
| HUFA75307D3S  | 55                            | Single  | 0.09                                            | —        | —    | —    | 9                                                 | 15                 | 45                 |
| FDD10AN06A0   | 60                            | Single  | 0.0105                                          | —        | —    | —    | 28                                                | 50                 | 135                |
| FDD14AN06LA0  | 60                            | Single  | 0.011                                           | 0.014@5V | —    | —    | 25                                                | 50                 | 125                |
| FDD13AN06A0   | 60                            | Single  | 0.013                                           | —        | —    | —    | 22                                                | 50                 | 115                |
| FDD5670       | 60                            | Single  | 0.015                                           | —        | —    | —    | 49                                                | 48                 | 70                 |
| FDD5680       | 60                            | Single  | 0.021                                           | —        | —    | —    | 33                                                | 38                 | 60                 |
| HUF76429D3S   | 60                            | Single  | 0.023                                           | 0.027    | —    | —    | 38                                                | 20                 | 110                |
| HUFA76429D3S  | 60                            | Single  | 0.023                                           | 0.027    | —    | —    | 38                                                | 20                 | 110                |
| HUFA75429D3ST | 60                            | Single  | 0.025                                           | —        | —    | —    | 36                                                | 20                 | 125                |
| FDD5690       | 60                            | Single  | 0.027                                           | —        | —    | —    | 23                                                | 30                 | 50                 |
| HUF76423D3S   | 60                            | Single  | 0.032                                           | 0.037    | —    | —    | 28                                                | 20                 | 85                 |
| HUFA76423D3S  | 60                            | Single  | 0.032                                           | 0.037    | —    | —    | 28                                                | 20                 | 85                 |
| HUF76419D3S   | 60                            | Single  | 0.037                                           | 0.043    | —    | —    | 23                                                | 20                 | 75                 |
| HUFA76419D3S  | 60                            | Single  | 0.037                                           | 0.043    | —    | —    | 23                                                | 20                 | 75                 |
| RFD16N06LESM  | 60                            | Single  | —                                               | 0.047    | —    | —    | 51                                                | 16                 | 90                 |
| FQD30N06L     | 60                            | Single  | 0.039                                           | 0.047@5V | —    | —    | 15                                                | 24                 | 44                 |
| FQD30N06      | 60                            | Single  | 0.045                                           | —        | —    | —    | 19                                                | 22.7               | 44                 |
| HUF76413D3S   | 60                            | Single  | 0.049                                           | 0.056    | —    | —    | 17                                                | 20                 | 60                 |
| HUFA76413D3S  | 60                            | Single  | 0.049                                           | 0.056    | —    | —    | 17                                                | 20                 | 60                 |
| FDD5612       | 60                            | Single  | 0.055                                           | —        | —    | —    | 7.5                                               | 18                 | 42                 |
| FQD20N06L     | 60                            | Single  | 0.06                                            | 0.075@5V | —    | —    | 9.5                                               | 17.2               | 38                 |

**TO-252 (Continued)**

| Part Number   | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|---------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|               |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| FQD20N06LE    | 60                            | Single  | 0.06                                            | 0.075@5V | –    | –    | 9.5                                               | 17.2               | 38                 |
| FQD20N06      | 60                            | Single  | 0.063                                           | –        | –    | –    | 11.5                                              | 16.8               | 38                 |
| HUF76409D3S   | 60                            | Single  | 0.063                                           | 0.071    | –    | –    | 12                                                | 18                 | 49                 |
| HUFA76409D3S  | 60                            | Single  | 0.063                                           | 0.071    | –    | –    | 12                                                | 18                 | 49                 |
| RFD12N06RLESM | 60                            | Single  | 0.063                                           | 0.075    | –    | –    | 12                                                | 18                 | 49                 |
| HUF76407D3S   | 60                            | Single  | 0.092                                           | 0.107    | –    | –    | 9.4                                               | 12                 | 38                 |
| HUFA76407D3S  | 60                            | Single  | 0.092                                           | 0.107    | –    | –    | 9.4                                               | 12                 | 38                 |
| FQD13N06L     | 60                            | Single  | 0.11                                            | 0.14@5V  | –    | –    | 4.8                                               | 11                 | 28                 |
| RFD4N06LSM    | 60                            | Single  | –                                               | 0.6      | –    | –    | 6                                                 | 4                  | 30                 |
| FQD13N06      | 60                            | Single  | 0.14                                            | –        | –    | –    | 7.5                                               | 10                 | 28                 |
| FDD16AN08AO   | 75                            | Single  | 0.016                                           | –        | –    | –    | 31                                                | 50                 | 135                |
| FDD3570       | 80                            | Single  | 0.019                                           | –        | –    | –    | 54                                                | 10                 | 69                 |
| FDD3580       | 80                            | Single  | 0.029                                           | –        | –    | –    | 35                                                | 7.7                | 42                 |
| FQD24N08      | 80                            | Single  | 0.06                                            | –        | –    | –    | 19                                                | 19.6               | 50                 |
| FQD17N08L     | 80                            | Single  | 0.1                                             | 0.115@5V | –    | –    | 8.8                                               | 12.9               | 40                 |
| FQD17N08      | 80                            | Single  | 0.115                                           | –        | –    | –    | 12                                                | 12.9               | 40                 |
| FQD9N08       | 80                            | Single  | 0.21                                            | –        | –    | –    | 5.9                                               | 7.4                | 25                 |
| FQD9N08L      | 80                            | Single  | 0.21                                            | 0.23@5V  | –    | –    | 4.7                                               | 7.4                | 25                 |
| FDD3672       | 100                           | Single  | 0.028                                           | –        | –    | –    | 24                                                | 44                 | 135                |
| FDD3670       | 100                           | Single  | 0.032                                           | –        | –    | –    | 57                                                | 34                 | 83                 |
| FDD3682       | 100                           | Single  | 0.036                                           | –        | –    | –    | 18.5                                              | 32                 | 95                 |
| FDD3680       | 100                           | Single  | 0.046                                           | –        | –    | –    | 38                                                | 25                 | 60                 |
| HUF76629D3S   | 100                           | Single  | 0.052                                           | 0.054    | –    | –    | 38                                                | 20                 | 110                |
| HUFA76629D3S  | 100                           | Single  | 0.052                                           | 0.054    | –    | –    | 38                                                | 20                 | 110                |
| FDD3690       | 100                           | Single  | 0.064                                           | –        | –    | –    | 28                                                | 22                 | 60                 |
| HUF76619D3S   | 100                           | Single  | 0.085                                           | 0.087    | –    | –    | 24                                                | 18                 | 75                 |
| HUFA76619D3S  | 100                           | Single  | 0.085                                           | 0.087    | –    | –    | 24                                                | 18                 | 75                 |
| HUF75617D3S   | 100                           | Single  | 0.09                                            | –        | –    | –    | 18                                                | 16                 | 64                 |
| HUFA75617D3S  | 100                           | Single  | 0.09                                            | –        | –    | –    | 18                                                | 16                 | 64                 |
| FQD19N10      | 100                           | Single  | 0.1                                             | –        | –    | –    | 19                                                | 15.6               | 50                 |
| FQD19N10L     | 100                           | Single  | 0.1                                             | 0.11@5V  | –    | –    | 14                                                | 15.6               | 50                 |
| IRLR130A      | 100                           | Single  | –                                               | 0.12@5V  | –    | –    | 16.9                                              | 13                 | 46                 |

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| Part Number  | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|---------------------------------------------------|--------------------|--------------------|
|              |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                   |                    |                    |
| IRFR130A     | 100                           | Single  | 0.11                                            | –       | –    | –    | 27                                                | 13                 | 41                 |
| HUF76609D3S  | 100                           | Single  | 0.16                                            | 0.165   | –    | –    | 13                                                | 10                 | 49                 |
| HUFA76609D3S | 100                           | Single  | 0.16                                            | 0.165   | –    | –    | 13                                                | 10                 | 49                 |
| FQD13N10     | 100                           | Single  | 0.18                                            | –       | –    | –    | 12                                                | 10                 | 40                 |
| FQD13N10L    | 100                           | Single  | 0.18                                            | 0.2@5V  | –    | –    | 8.7                                               | 10                 | 40                 |
| IRLR120A     | 100                           | Single  | –                                               | 0.22@5V | –    | –    | 10.2                                              | 8.4                | 35                 |
| IRFR120A     | 100                           | Single  | 0.2                                             | –       | –    | –    | 16                                                | 8.4                | 32                 |
| FQD7N10      | 100                           | Single  | 0.35                                            | –       | –    | –    | 5.8                                               | 5.8                | 25                 |
| FQD7N10L     | 100                           | Single  | 0.35                                            | 0.38@5V | –    | –    | 4.6                                               | 5.8                | 25                 |
| IRLR110A     | 100                           | Single  | –                                               | 0.44@5V | –    | –    | 5.5                                               | 4.7                | 22                 |
| IRFR110A     | 100                           | Single  | 0.4                                             | –       | –    | –    | 8.5                                               | 4.7                | 20                 |
| FDD2572      | 150                           | Single  | 0.056                                           | –       | –    | –    | 27                                                | 29                 | 135                |
| FDD2582      | 150                           | Single  | 0.077                                           | –       | –    | –    | 19                                                | 21                 | 310                |
| FDD2570      | 150                           | Single  | 0.08                                            | –       | –    | –    | 39                                                | 4.7                | 70                 |
| HUF75829D3S  | 150                           | Single  | 0.11                                            | –       | –    | –    | 31                                                | 18                 | 110                |
| FDD120AN15A0 | 150                           | Single  | 0.12                                            | –       | –    | –    | 11.2                                              | 14                 | 65                 |
| HUF75823D3S  | 150                           | Single  | 0.15                                            | –       | –    | –    | 23                                                | 14                 | 85                 |
| FQD16N15     | 150                           | Single  | 0.16                                            | –       | –    | –    | 23                                                | 11.8               | 55                 |
| FQD14N15     | 150                           | Single  | 0.21                                            | –       | –    | –    | 18                                                | 10                 | 50                 |
| FQD9N15      | 150                           | Single  | 0.4                                             | –       | –    | –    | 10                                                | 7                  | 45                 |
| FDD2512      | 150                           | Single  | 0.42                                            | –       | –    | –    | 8                                                 | 6.7                | 42                 |
| FQD6N15      | 150                           | Single  | 0.6                                             | –       | –    | –    | 6.5                                               | 5.2                | 37                 |
| FQD5N15      | 150                           | Single  | 0.8                                             | –       | –    | –    | 5.4                                               | 4.3                | 30                 |
| FDD2670      | 200                           | Single  | 0.13                                            | –       | –    | –    | 27                                                | 3.6                | 70                 |
| FQD18N20V2   | 200                           | Single  | 0.14                                            | –       | –    | –    | 20                                                | 15                 | 83                 |
| HUF75925D3ST | 200                           | Single  | 0.275                                           | –       | –    | –    | 32                                                | 11                 | 100                |
| FQD12N20     | 200                           | Single  | 0.28                                            | –       | –    | –    | 18                                                | 9                  | 55                 |
| FQD12N20L    | 200                           | Single  | 0.28                                            | 0.32@5V | –    | –    | 16                                                | 9                  | 55                 |
| FQD10N20     | 200                           | Single  | 0.36                                            | –       | –    | –    | 13.5                                              | 7.6                | 51                 |
| FQD10N20L    | 200                           | Single  | 0.36                                            | 0.38@5V | –    | –    | 13                                                | 7.6                | 51                 |
| IRLR230A     | 200                           | Single  | –                                               | 0.4@5V  | –    | –    | 18.6                                              | 7.5                | 48                 |
| FQD630       | 200                           | Single  | 0.4                                             | –       | –    | –    | 19                                                | 7                  | 46                 |

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| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|---------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                       |                    |                    |
| IRFR230B    | 200                           | Single  | 0.4                                             | —       | —    | —    | 22                                    | 7.5                | 50                 |
| FQD7N20     | 200                           | Single  | 0.69                                            | —       | —    | —    | 8                                     | 5.3                | 45                 |
| FDD2612     | 200                           | Single  | 0.72                                            | —       | —    | —    | 8                                     | 4.9                | 42                 |
| FQD7N20L    | 200                           | Single  | 0.75                                            | 0.78@5V | —    | —    | 6.8                                   | 5.5                | 45                 |
| IRLR220A    | 200                           | Single  | —                                               | 0.8@5V  | —    | —    | 10.3                                  | 4.6                | 33                 |
| IRFR220B    | 200                           | Single  | 0.8                                             | —       | —    | —    | 12                                    | 4.6                | 40                 |
| FQD5N20     | 200                           | Single  | 1.2                                             | —       | —    | —    | 6                                     | 3.8                | 37                 |
| FQD5N20L    | 200                           | Single  | 1.2                                             | 1.25@5V | —    | —    | 4.8                                   | 3.8                | 37                 |
| FQD4N20L    | 200                           | Single  | 1.35                                            | 1.4@5V  | —    | —    | 4                                     | 3.2                | 30                 |
| IRLR210A    | 200                           | Single  | —                                               | 1.5@5V  | —    | —    | 6.1                                   | 2.7                | 21                 |
| FQD4N20     | 200                           | Single  | 1.4                                             | —       | —    | —    | 5                                     | 3                  | 30                 |
| IRFR210B    | 200                           | Single  | 1.5                                             | —       | —    | —    | 7.2                                   | 2.7                | 26                 |
| FQD9N25     | 250                           | Single  | 0.42                                            | —       | —    | —    | 15.5                                  | 7.4                | 55                 |
| IRFR234B    | 250                           | Single  | 0.45                                            | —       | —    | —    | 29                                    | 6.6                | 49                 |
| FQD8N25     | 250                           | Single  | 0.55                                            | —       | —    | —    | 12                                    | 6.2                | 50                 |
| FQD6N25     | 250                           | Single  | 1                                               | —       | —    | —    | 6.6                                   | 4.4                | 45                 |
| IRFR224B    | 250                           | Single  | 1.1                                             | —       | —    | —    | 13.5                                  | 3.8                | 2.5                |
| FQD4N25     | 250                           | Single  | 1.75                                            | —       | —    | —    | 4.3                                   | 3                  | 37                 |
| IRFR214B    | 250                           | Single  | 2                                               | —       | —    | —    | 8.1                                   | 2.2                | 25                 |
| FQD3N25     | 250                           | Single  | 2.2                                             | —       | —    | —    | 4                                     | 2.4                | 30                 |
| FQD7N30     | 300                           | Single  | 0.7                                             | —       | —    | —    | 13                                    | 5.5                | 50                 |
| FQD5N30     | 300                           | Single  | 0.9                                             | —       | —    | —    | 9.8                                   | 4.4                | 45                 |
| FQD3N30     | 300                           | Single  | 2.2                                             | —       | —    | —    | 5.5                                   | 2.4                | 30                 |
| FQD2N30     | 300                           | Single  | 3.7                                             | —       | —    | —    | 3.7                                   | 1.7                | 25                 |
| IRFR330B    | 400                           | Single  | 1                                               | —       | —    | —    | 25                                    | 4.5                | 48                 |
| FQD6N40     | 400                           | Single  | 1.15                                            | —       | —    | —    | 13                                    | 4.2                | 50                 |
| FQD5N40     | 400                           | Single  | 1.6                                             | —       | —    | —    | 10                                    | 3.4                | 45                 |
| IRFR320B    | 400                           | Single  | 1.75                                            | —       | —    | —    | 14                                    | 3.1                | 41                 |
| FQD3N40     | 400                           | Single  | 3.4                                             | —       | —    | —    | 6                                     | 2                  | 30                 |
| IRFR310B    | 400                           | Single  | 3.4                                             | —       | —    | —    | 7.7                                   | 1.7                | 26                 |
| FQD2N40     | 400                           | Single  | 5.8                                             | —       | —    | —    | 4                                     | 1.4                | 25                 |
| IRFR430B    | 500                           | Single  | 1.5                                             | —       | —    | —    | 25                                    | 3.5                | 48                 |

**TO-252 (Continued)**

| Part Number                    | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------------------|--------------------|--------------------|
|                                |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                   |                    |                    |
| FQD5N50                        | 500                           | Single  | 1.8                                             | —    | —    | —    | 13                                                | 3.5                | 50                 |
| IRFR420                        | 500                           | Single  | Replaced by IRFR420B                            |      |      |      |                                                   |                    |                    |
| IRFR420B                       | 500                           | Single  | 2.6                                             | —    | —    | —    | 14                                                | 2.3                | 41                 |
| FQD4N50                        | 500                           | Single  | 2.7                                             | —    | —    | —    | 10                                                | 2.6                | 45                 |
| FQD2N50                        | 500                           | Single  | 5.3                                             | —    | —    | —    | 6                                                 | 1.6                | 30                 |
| SSR1N50B                       | 500                           | Single  | 5.5                                             | —    | —    | —    | 8.3                                               | 1.3                | 26                 |
| FQD1N50                        | 500                           | Single  | 9                                               | —    | —    | —    | 4                                                 | 1.1                | 25                 |
| SSR4N60B                       | 600                           | Single  | 2.5                                             | —    | —    | —    | 22                                                | 2.8                | 49                 |
| FQD3N60                        | 600                           | Single  | 3.6                                             | —    | —    | —    | 10                                                | 2.4                | 50                 |
| FQD2N60                        | 600                           | Single  | 4.7                                             | —    | —    | —    | 9                                                 | 2                  | 45                 |
| SSR2N60B                       | 600                           | Single  | 5                                               | —    | —    | —    | 12.5                                              | 1.8                | 44                 |
| FQD1N60                        | 600                           | Single  | 11.5                                            | —    | —    | —    | 5                                                 | 1                  | 30                 |
| SSR1N60B                       | 600                           | Single  | 12                                              | —    | —    | —    | 5.9                                               | 0.9                | 28                 |
| FQD2N80                        | 800                           | Single  | 6.3                                             | —    | —    | —    | 12                                                | 1.8                | 50                 |
| FQD1N80                        | 800                           | Single  | 20                                              | —    | —    | —    | 5.5                                               | 1                  | 45                 |
| FQD2N90                        | 900                           | Single  | 7.2                                             | —    | —    | —    | 12                                                | 1.7                | 50                 |
| FQD2N100                       | 1000                          | Single  | 10                                              | —    | —    | —    | 12                                                | 1.7                | 50                 |
| <b>TO-252 (DPAK) P-Channel</b> |                               |         |                                                 |      |      |      |                                                   |                    |                    |
| FQD3P50                        | -500                          | Single  | 4.9                                             | —    | —    | —    | 18                                                | 2.1                | 50                 |
| FQD1P50                        | -500                          | Single  | 10.5                                            | —    | —    | —    | 11                                                | 1.2                | 38                 |
| FQD4P40                        | -400                          | Single  | 3.1                                             | —    | —    | —    | 18                                                | 2.7                | 50                 |
| FQD2P40                        | -400                          | Single  | 6.5                                             | —    | —    | —    | 10                                                | 1.6                | 38                 |
| SFR9310                        | -400                          | Single  | 8                                               | —    | —    | —    | 17                                                | 1.5                | 36                 |
| FQD6P25                        | -250                          | Single  | 1.1                                             | —    | —    | —    | 21                                                | 4.7                | 55                 |
| FQD4P25                        | -250                          | Single  | 2.1                                             | —    | —    | —    | 10                                                | 3.1                | 45                 |
| SFR9224                        | -250                          | Single  | 2.4                                             | —    | —    | —    | 16                                                | 2.5                | 30                 |
| FQD2P25                        | -250                          | Single  | 4                                               | —    | —    | —    | 6.5                                               | 2                  | 37                 |
| SFR9214                        | -250                          | Single  | 4                                               | —    | —    | —    | 9                                                 | 1.5                | 19                 |
| SFR9230B                       | -200                          | Single  | 0.6                                             | —    | —    | —    | 29                                                | 5.4                | 49                 |
| FQD7P20                        | -200                          | Single  | 0.69                                            | —    | —    | —    | 19                                                | 5.7                | 55                 |
| FQD5P20                        | -200                          | Single  | 1.4                                             | —    | —    | —    | 10                                                | 3.7                | 45                 |
| IRFR9220                       | -200                          | Single  | Replaced by SFR9220                             |      |      |      |                                                   |                    |                    |



**TO-252 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                       |                    |                    |
| SFR9220     | -200                          | Single  | 1.5                                             | –    | –    | –    | 15                                    | 3.1                | 30                 |
| FQD3P20     | -200                          | Single  | 2.7                                             | –    | –    | –    | 6                                     | 2.4                | 37                 |
| SFR9210     | -200                          | Single  | 3                                               | –    | –    | –    | 9                                     | 1.6                | 19                 |
| FQD12P10    | -100                          | Single  | 0.29                                            | –    | –    | –    | 21                                    | 9.4                | 50                 |
| SFR9130     | -100                          | Single  | 0.3                                             | –    | –    | –    | 30                                    | 9.8                | 57                 |
| FQD8P10     | -100                          | Single  | 0.53                                            | –    | –    | –    | 12                                    | 6.6                | 44                 |
| SFR9120     | -100                          | Single  | 0.6                                             | –    | –    | –    | 16                                    | 4.9                | 32                 |
| FQD5P10     | -100                          | Single  | 1.05                                            | –    | –    | –    | 6.3                                   | 3.6                | 25                 |
| SFR9110     | -100                          | Single  | 1.2                                             | –    | –    | –    | 9                                     | 2.8                | 20                 |
| FDD5614P    | -60                           | Single  | 0.1                                             | 0.13 | –    | –    | 15                                    | 15                 | 42                 |
| FQD17P06    | -60                           | Single  | 0.135                                           | –    | –    | –    | 21                                    | 12                 | 44                 |
| SFR9034     | -60                           | Single  | 0.14                                            | –    | –    | –    | 30                                    | 14                 | 49                 |
| FQD11P06    | -60                           | Single  | 0.185                                           | –    | –    | –    | 13                                    | 9.4                | 38                 |
| SFR9024     | -60                           | Single  | 0.28                                            | –    | –    | –    | 15                                    | 7.8                | 32                 |
| SFR2955     | -60                           | Single  | 0.3                                             | –    | –    | –    | 15                                    | 7.6                | 32                 |
| FQD7P06     | -60                           | Single  | 0.45                                            | –    | –    | –    | 6.3                                   | 5.4                | 28                 |
| SFR9014     | -60                           | Single  | 0.5                                             | –    | –    | –    | 9                                     | 5.3                | 24                 |

**TO-262**

| Part Number                                | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------|--------------------|--------------------|
|                                            |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                       |                    |                    |
| <b>TO-262 (I<sup>2</sup>PAK) N-Channel</b> |                               |         |                                                 |          |      |      |                                       |                    |                    |
| ISL9N303AS3                                | 30                            | Single  | 0.0032                                          | 0.005    | –    | –    | 61                                    | 75                 | 215                |
| HUF75345S3                                 | 55                            | Single  | 0.007                                           | –        | –    | –    | 125                                   | 75                 | 325                |
| HUF75333S3                                 | 55                            | Single  | 0.016                                           | –        | –    | –    | 40                                    | 66                 | 150                |
| FDI038AN06A0                               | 60                            | Single  | 0.0038                                          | –        | –    | –    | 95                                    | 80                 | 310                |
| FQI50N06L                                  | 60                            | Single  | 0.021                                           | 0.025@5V | –    | –    | 24.5                                  | 52                 | 121                |
| FQI50N06                                   | 60                            | Single  | 0.022                                           | –        | –    | –    | 31                                    | 50                 | 120                |
| FQI30N06L                                  | 60                            | Single  | 0.035                                           | 0.045@5V | –    | –    | 15                                    | 32                 | 79                 |
| RF1S25N06                                  | 60                            | Single  | 0.047                                           | –        | –    | –    | 35                                    | 25                 | 72                 |
| FQI13N06L                                  | 60                            | Single  | 0.11                                            | 0.14@5V  | –    | –    | 4.8                                   | 13.6               | 45                 |
| FQI13N06                                   | 60                            | Single  | 0.135                                           | –        | –    | –    | 5.8                                   | 13                 | 45                 |
| HUF75545S3                                 | 80                            | Single  | 0.01                                            | –        | –    | –    | 105                                   | 75                 | 270                |
| FQI90N08                                   | 80                            | Single  | 0.016                                           | –        | –    | –    | 84                                    | 71                 | 160                |
| FQI70N08                                   | 80                            | Single  | 0.017                                           | –        | –    | –    | 75                                    | 70                 | 155                |
| FQI44N08                                   | 80                            | Single  | 0.034                                           | –        | –    | –    | 38                                    | 44                 | 127                |
| FQI17N08L                                  | 80                            | Single  | 0.1                                             | 0.115@5V | –    | –    | 8.8                                   | 16.5               | 65                 |
| FQI17N08                                   | 80                            | Single  | 0.115                                           | –        | –    | –    | 12                                    | 16.5               | 65                 |
| FQI9N08                                    | 80                            | Single  | 0.21                                            | –        | –    | –    | 5.9                                   | 9.3                | 40                 |
| FQI9N08L                                   | 80                            | Single  | 0.21                                            | 0.23@5V  | –    | –    | 4.7                                   | 9.3                | 40                 |
| FDI3632                                    | 100                           | Single  | 0.009                                           | –        | –    | –    | 84                                    | 80                 | 310                |
| FDI3652                                    | 100                           | Single  | 0.016                                           | –        | –    | –    | 44                                    | 61                 | 150                |
| FQI70N10                                   | 100                           | Single  | 0.025                                           | –        | –    | –    | 85                                    | 57                 | 160                |
| HUF75639S3                                 | 100                           | Single  | 0.025                                           | –        | –    | –    | 57                                    | 56                 | 200                |
| FQI44N10                                   | 100                           | Single  | 0.039                                           | –        | –    | –    | 48                                    | 43.5               | 146                |
| IRFI550A                                   | 100                           | Single  | 0.04                                            | –        | –    | –    | 75                                    | 40                 | 167                |
| FQI33N10                                   | 100                           | Single  | 0.052                                           | –        | –    | –    | 38                                    | 33                 | 127                |
| IRFI540A                                   | 100                           | Single  | 0.052                                           | –        | –    | –    | 60                                    | 28                 | 107                |
| FQI33N10L                                  | 100                           | Single  | 0.052                                           | 0.055@5V | –    | –    | 30                                    | 33                 | 127                |
| IRLI540A                                   | 100                           | Single  | –                                               | 0.058@5V | –    | –    | 38.4                                  | 28                 | 121                |
| FQI19N10                                   | 100                           | Single  | 0.1                                             | –        | –    | –    | 19                                    | 19                 | 75                 |
| FQI19N10L                                  | 100                           | Single  | 0.1                                             | 0.11@5V  | –    | –    | 14                                    | 19                 | 75                 |
| IRLI530A                                   | 100                           | Single  | –                                               | 0.12@5V  | –    | –    | 16.9                                  | 14                 | 62                 |

**TO-262 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|---------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                       |                    |                    |
| IRFI530A    | 100                           | Single  | 0.11                                            | –       | –    | –    | 27                                    | 14                 | 55                 |
| FQI13N10    | 100                           | Single  | 0.18                                            | –       | –    | –    | 12                                    | 12.8               | 65                 |
| FQI13N10L   | 100                           | Single  | 0.18                                            | 0.2@5V  | –    | –    | 8.7                                   | 12.8               | 65                 |
| IRLI520A    | 100                           | Single  | –                                               | 0.22@5V | –    | –    | 10.2                                  | 9.2                | 49                 |
| IRFI520A    | 100                           | Single  | 0.2                                             | –       | –    | –    | 16                                    | 9.2                | 45                 |
| FQI7N10     | 100                           | Single  | 0.35                                            | –       | –    | –    | 5.8                                   | 7.3                | 40                 |
| FQI7N10L    | 100                           | Single  | 0.35                                            | 0.38@5V | –    | –    | 4.6                                   | 7.3                | 40                 |
| IRLI510A    | 100                           | Single  | –                                               | 0.44@5V | –    | –    | 5.5                                   | 5.6                | 37                 |
| IRFI510A    | 100                           | Single  | 0.4                                             | –       | –    | –    | 8.5                                   | 5.6                | 33                 |
| FDI2532     | 150                           | Single  | 0.016                                           | –       | –    | –    | 86                                    | 79                 | 310                |
| FQI28N15    | 150                           | Single  | 0.09                                            | –       | –    | –    | 40                                    | 28                 | 168                |
| FQI16N15    | 150                           | Single  | 0.16                                            | –       | –    | –    | 23                                    | 16.4               | 108                |
| FQI9N15     | 150                           | Single  | 0.4                                             | –       | –    | –    | 10                                    | 9                  | 75                 |
| FQI6N15     | 150                           | Single  | 0.6                                             | –       | –    | –    | 6.5                                   | 6.4                | 63                 |
| FQI5N15     | 150                           | Single  | 0.8                                             | –       | –    | –    | 5.4                                   | 5.4                | 54                 |
| FQI34N20    | 200                           | Single  | 0.075                                           | –       | –    | –    | 60                                    | 31                 | 180                |
| IRFI650B    | 200                           | Single  | 0.085                                           | –       | –    | –    | 95                                    | 28                 | 156                |
| FQI19N20L   | 200                           | Single  | 0.14                                            | 0.15@5V | –    | –    | 27                                    | 21                 | 140                |
| FQI19N20    | 200                           | Single  | 0.15                                            | –       | –    | –    | 31                                    | 19.4               | 140                |
| IRFI640B    | 200                           | Single  | 0.18                                            | –       | –    | –    | 45                                    | 18                 | 139                |
| FQI12N20L   | 200                           | Single  | 0.28                                            | 0.32@5V | –    | –    | 16                                    | 11.6               | 90                 |
| FQI10N20L   | 200                           | Single  | 0.36                                            | 0.38@5V | –    | –    | 13                                    | 10                 | 87                 |
| IRLI630A    | 200                           | Single  | –                                               | 0.4@5V  | –    | –    | 18.6                                  | 9                  | 69                 |
| IRFI630B    | 200                           | Single  | 0.4                                             | –       | –    | –    | 22                                    | 9                  | 72                 |
| FQI7N20     | 200                           | Single  | 0.69                                            | –       | –    | –    | 8                                     | 6.6                | 63                 |
| FQI7N20L    | 200                           | Single  | 0.75                                            | 0.78@5V | –    | –    | 6.8                                   | 6.5                | 63                 |
| IRLI620A    | 200                           | Single  | –                                               | 0.8@5V  | –    | –    | 10.3                                  | 5                  | 39                 |
| IRFI620B    | 200                           | Single  | 0.8                                             | –       | –    | –    | 12                                    | 5                  | 47                 |
| FQI5N20     | 200                           | Single  | 1.2                                             | –       | –    | –    | 6                                     | 4.5                | 52                 |
| FQI5N20L    | 200                           | Single  | 1.2                                             | 1.25@5V | –    | –    | 4.8                                   | 4.5                | 52                 |
| FQI4N20L    | 200                           | Single  | 1.35                                            | 1.4@5V  | –    | –    | 4                                     | 3.8                | 45                 |
| IRLI610A    | 200                           | Single  | –                                               | 1.5@5V  | –    | –    | 6.1                                   | 3.3                | 33                 |

**TO-262 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                       |                    |                    |
| FQI4N20     | 200                           | Single  | 1.4                                             | —    | —    | —    | 5                                     | 3.6                | 45                 |
| IRFI610B    | 200                           | Single  | 1.5                                             | —    | —    | —    | 7.2                                   | 3.3                | 38                 |
| FQI27N25    | 250                           | Single  | 0.11                                            | —    | —    | —    | 50                                    | 25.5               | 180                |
| IRFI654B    | 250                           | Single  | 0.14                                            | —    | —    | —    | 95                                    | 15                 | 156                |
| IRFI644B    | 250                           | Single  | 0.28                                            | —    | —    | —    | 47                                    | 14                 | 139                |
| IRFI634B    | 250                           | Single  | 0.45                                            | —    | —    | —    | 29                                    | 8.1                | 74                 |
| IRFI624B    | 250                           | Single  | 1.1                                             | —    | —    | —    | 13.5                                  | 4.1                | 49                 |
| FQI4N25     | 250                           | Single  | 1.75                                            | —    | —    | —    | 4.3                                   | 3.6                | 52                 |
| IRFI614B    | 250                           | Single  | 2                                               | —    | —    | —    | 8.1                                   | 2.8                | 40                 |
| FQI3N25     | 250                           | Single  | 2.2                                             | —    | —    | —    | 4                                     | 2.8                | 45                 |
| FQI5N30     | 300                           | Single  | 0.9                                             | —    | —    | —    | 9.8                                   | 5.4                | 70                 |
| FQI3N30     | 300                           | Single  | 2.2                                             | —    | —    | —    | 5.5                                   | 3.2                | 55                 |
| FQI2N30     | 300                           | Single  | 3.7                                             | —    | —    | —    | 3.7                                   | 2.1                | 40                 |
| FQI11N40    | 400                           | Single  | 0.48                                            | —    | —    | —    | 27                                    | 11.4               | 147                |
| IRFI740B    | 400                           | Single  | 0.54                                            | —    | —    | —    | 41                                    | 10                 | 134                |
| FQI7N40     | 400                           | Single  | 0.8                                             | —    | —    | —    | 16.5                                  | 7                  | 98                 |
| FQI6N40     | 400                           | Single  | 1.15                                            | —    | —    | —    | 13                                    | 5.5                | 85                 |
| FQI5N40     | 400                           | Single  | 1.6                                             | —    | —    | —    | 10                                    | 4.5                | 70                 |
| FQI3N40     | 400                           | Single  | 3.4                                             | —    | —    | —    | 6                                     | 2.5                | 55                 |
| FQI6N45     | 450                           | Single  | 1.1                                             | —    | —    | —    | 16                                    | 6.2                | 98                 |
| FQI9N50     | 500                           | Single  | 0.73                                            | —    | —    | —    | 28                                    | 9                  | 147                |
| IRFI840B    | 500                           | Single  | 0.85                                            | —    | —    | —    | 41                                    | 8                  | 134                |
| IRFI830B    | 500                           | Single  | 1.5                                             | —    | —    | —    | 27                                    | 4.5                | 73                 |
| FQI5N50     | 500                           | Single  | 1.8                                             | —    | —    | —    | 13                                    | 4.5                | 85                 |
| SSI1N50B    | 500                           | Single  | 5.5                                             | —    | —    | —    | 8.3                                   | 1.5                | 36                 |
| FQI12N60    | 600                           | Single  | 0.7                                             | —    | —    | —    | 42                                    | 10.5               | 180                |
| SSI10N60B   | 600                           | Single  | 0.8                                             | —    | —    | —    | 54                                    | 9                  | 156                |
| FQI7N60     | 600                           | Single  | 1                                               | —    | —    | —    | 29                                    | 7.4                | 142                |
| SSI7N60B    | 600                           | Single  | 1.2                                             | —    | —    | —    | 38                                    | 7                  | 147                |
| FQI4N60     | 600                           | Single  | 2.2                                             | —    | —    | —    | 15                                    | 4.4                | 106                |
| SSI4N60B    | 600                           | Single  | 2.5                                             | —    | —    | —    | 22                                    | 4                  | 100                |
| SSI2N60B    | 600                           | Single  | 5                                               | —    | —    | —    | 12.5                                  | 2                  | 54                 |

**TO-262 (Continued)**

| Part Number                               | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------------------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------|--------------------|--------------------|
|                                           |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                       |                    |                    |
| SSI1N60B                                  | 600                           | Single  | 12                                              | —    | —    | —    | 5.9                                   | 1                  | 34                 |
| FQI6N70                                   | 700                           | Single  | 1.5                                             | —    | —    | —    | 30                                    | 6.2                | 142                |
| FQI7N80                                   | 800                           | Single  | 1.5                                             | —    | —    | —    | 40                                    | 6.6                | 167                |
| FQI5N80                                   | 800                           | Single  | 2.6                                             | —    | —    | —    | 25                                    | 4.8                | 140                |
| FQI4N80                                   | 800                           | Single  | 3.6                                             | —    | —    | —    | 19                                    | 3.9                | 130                |
| FQI3N80                                   | 800                           | Single  | 5                                               | —    | —    | —    | 15                                    | 3                  | 107                |
| FQI2N80                                   | 800                           | Single  | 6.3                                             | —    | —    | —    | 12                                    | 2.4                | 85                 |
| FQI6N90                                   | 900                           | Single  | 1.9                                             | —    | —    | —    | 40                                    | 5.8                | 167                |
| FQI5N90                                   | 900                           | Single  | 2.3                                             | —    | —    | —    | 31                                    | 5.4                | 158                |
| FQI4N90                                   | 900                           | Single  | 3.1                                             | —    | —    | —    | 24                                    | 4.2                | 140                |
| FQI3N90                                   | 900                           | Single  | 4.25                                            | —    | —    | —    | 20                                    | 3.6                | 130                |
| FQI2NA90                                  | 900                           | Single  | 5.8                                             | —    | —    | —    | 15                                    | 2.8                | 107                |
| FQI2N90                                   | 900                           | Single  | 7.2                                             | —    | —    | —    | 12                                    | 2.2                | 85                 |
| <b>TO-262(I<sup>2</sup>PAK) P-Channel</b> |                               |         |                                                 |      |      |      |                                       |                    |                    |
| FQI3P50                                   | -500                          | Single  | 4.9                                             | —    | —    | —    | 18                                    | 2.7                | 85                 |
| FQI1P50                                   | -500                          | Single  | 10.5                                            | —    | —    | —    | 11                                    | 1.5                | 63                 |
| FQI4P40                                   | -400                          | Single  | 3.1                                             | —    | —    | —    | 18                                    | 3.5                | 85                 |
| FQI2P40                                   | -400                          | Single  | 6.5                                             | —    | —    | —    | 10                                    | 2                  | 63                 |
| FQI9P25                                   | -250                          | Single  | 0.62                                            | —    | —    | —    | 29                                    | 9.4                | 120                |
| SFI9644                                   | -250                          | Single  | 0.8                                             | —    | —    | —    | 45                                    | 8.6                | 123                |
| FQI6P25                                   | -250                          | Single  | 1.1                                             | —    | —    | —    | 21                                    | 6                  | 90                 |
| SFI9634                                   | -250                          | Single  | 1.3                                             | —    | —    | —    | 29                                    | 5                  | 70                 |
| SFI9624                                   | -250                          | Single  | 2.4                                             | —    | —    | —    | 16                                    | 2.7                | 38                 |
| FQI2P25                                   | -250                          | Single  | 4                                               | —    | —    | —    | 6.5                                   | 2.3                | 52                 |
| SFI9614                                   | -250                          | Single  | 4                                               | —    | —    | —    | 9                                     | 1.6                | 20                 |
| FQI12P20                                  | -200                          | Single  | 0.47                                            | —    | —    | —    | 31                                    | 11.5               | 120                |
| SFI9640                                   | -200                          | Single  | 0.5                                             | —    | —    | —    | 46                                    | 11                 | 123                |
| FQI7P20                                   | -200                          | Single  | 0.69                                            | —    | —    | —    | 19                                    | 7.3                | 90                 |
| SFI9630                                   | -200                          | Single  | 0.8                                             | —    | —    | —    | 29                                    | 6.5                | 70                 |
| FQI5P20                                   | -200                          | Single  | 1.4                                             | —    | —    | —    | 10                                    | 4.8                | 75                 |
| FQI3P20                                   | -200                          | Single  | 2.7                                             | —    | —    | —    | 6                                     | 2.8                | 52                 |
| SFI9610                                   | -200                          | Single  | 3                                               | —    | —    | —    | 9                                     | 1.8                | 20                 |

**TO-262 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                       |                    |                    |
| FQI17P10    | -100                          | Single  | 0.19                                            | –    | –    | –    | 30                                    | 16.5               | 100                |
| SFI9540     | -100                          | Single  | 0.2                                             | –    | –    | –    | 43                                    | 17                 | 132                |
| FQI12P10    | -100                          | Single  | 0.29                                            | –    | –    | –    | 21                                    | 11.5               | 75                 |
| SFI9530     | -100                          | Single  | 0.3                                             | –    | –    | –    | 30                                    | 10.5               | 66                 |
| FQI8P10     | -100                          | Single  | 0.53                                            | –    | –    | –    | 12                                    | 8                  | 65                 |
| SFI9520     | -100                          | Single  | 0.6                                             | –    | –    | –    | 16                                    | 6                  | 49                 |
| FQI5P10     | -100                          | Single  | 1.05                                            | –    | –    | –    | 6.3                                   | 4.5                | 40                 |
| SFI9510     | -100                          | Single  | 1.2                                             | –    | –    | –    | 9                                     | 3.6                | 32                 |
| FQI47P06    | -60                           | Single  | 0.026                                           | –    | –    | –    | 84                                    | 47                 | 160                |
| FQI27P06    | -60                           | Single  | 0.07                                            | –    | –    | –    | 33                                    | 27                 | 120                |
| FQI17P06    | -60                           | Single  | 0.12                                            | –    | –    | –    | 21                                    | 17                 | 79                 |
| SFI9Z34     | -60                           | Single  | 0.14                                            | –    | –    | –    | 30                                    | 18                 | 82                 |
| FQI11P06    | -60                           | Single  | 0.175                                           | –    | –    | –    | 13                                    | 11.4               | 53                 |
| SFI9Z24     | -60                           | Single  | 0.28                                            | –    | –    | –    | 15                                    | 9.7                | 49                 |
| SFI2955     | -60                           | Single  | 0.3                                             | –    | –    | –    | 15                                    | 9.4                | 49                 |
| FQI7P06     | -60                           | Single  | 0.41                                            | –    | –    | –    | 6.3                                   | 7                  | 45                 |
| SFI9Z14     | -60                           | Single  | 0.5                                             | –    | –    | –    | 9                                     | 6.7                | 38                 |

**TO-263 (D<sup>2</sup>PAK)**

| Part Number                                | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------------------|-------------------------------|---------|-------------------------------------------------|--------|------|------|---------------------------------------------------|--------------------|--------------------|
|                                            |                               |         | 10V                                             | 4.5V   | 2.5V | 1.8V |                                                   |                    |                    |
| <b>TO-263 (D<sup>2</sup>PAK) N-Channel</b> |                               |         |                                                 |        |      |      |                                                   |                    |                    |
| ISL9N302AS3ST                              | 30                            | Single  | 0.0023                                          | 0.0033 | –    | –    | 110                                               | 75                 | 345                |
| ISL9N303AS3ST                              | 30                            | Single  | 0.0026                                          | 0.004  | –    | –    | 61                                                | 75                 | 215                |
| FDB8030L                                   | 30                            | Single  | 0.0035                                          | 0.0045 | –    | –    | 120                                               | 80                 | 187                |
| FDB7045L                                   | 30                            | Single  | 0.0045                                          | 0.006  | –    | –    | 50                                                | 100                | 125                |
| ISL9N304AS3ST                              | 30                            | Single  | 0.0045                                          | 0.0075 | –    | –    | 38                                                | 75                 | 145                |
| FDB6676                                    | 30                            | Single  | 0.006                                           | 0.0075 | –    | –    | 43                                                | 84                 | 93                 |
| ISL9N306AS3ST                              | 30                            | Single  | 0.006                                           | 0.0095 | –    | –    | 30                                                | 75                 | 125                |
| FQB95N03L                                  | 30                            | Single  | 0.0064                                          | 0.01   | –    | –    | 24                                                | 40                 | 80                 |
| FDB6670AL                                  | 30                            | Single  | 0.0065                                          | 0.0085 | –    | –    | 24                                                | 80                 | 68                 |
| FDB7030L                                   | 30                            | Single  | 0.007                                           | 0.01   | –    | –    | 35                                                | 100                | 125                |
| ISL9N307AS3ST                              | 30                            | Single  | 0.007                                           | 0.0115 | –    | –    | 28                                                | 75                 | 100                |
| FDB7042L                                   | 30                            | Single  | 0.0075                                          | 0.009  | –    | –    | 32                                                | 50                 | 83                 |
| FDB6644                                    | 30                            | Single  | 0.0085                                          | 0.0105 | –    | –    | 27                                                | 50                 | 83                 |
| FDB7030BL                                  | 30                            | Single  | 0.009                                           | 0.012  | –    | –    | 23                                                | 60                 | 65                 |
| ISL9N310AS3ST                              | 30                            | Single  | 0.01                                            | 0.015  | –    | –    | 17                                                | 62                 | 70                 |
| FQB60N03L                                  | 30                            | Single  | 0.01                                            | 0.017  | –    | –    | 13                                                | 55                 | 60                 |
| FDB6035L                                   | 30                            | Single  | 0.011                                           | 0.019  | –    | –    | 34                                                | 58                 | 75                 |
| ISL9N312AS3ST                              | 30                            | Single  | 0.012                                           | 0.02   | –    | –    | 13                                                | 58                 | 75                 |
| ISL9N316AS3ST                              | 30                            | Single  | Replaced by ISL9N312AS3ST                       |        |      |      |                                                   |                    |                    |
| FDB6035AL                                  | 30                            | Single  | 0.0125                                          | 0.017  | –    | –    | 17                                                | 48                 | 58                 |
| FDB6030L                                   | 30                            | Single  | 0.0135                                          | 0.02   | –    | –    | 34                                                | 52                 | 75                 |
| HUF76129S3S                                | 30                            | Single  | 0.016                                           | 0.023  | –    | –    | 19                                                | 56                 | 105                |
| FDB6030BL                                  | 30                            | Single  | 0.018                                           | 0.024  | –    | –    | 12                                                | 40                 | 60                 |
| FDB4030L                                   | 30                            | Single  | Replaced by FDB603AL                            |        |      |      |                                                   |                    |                    |
| FDB603AL                                   | 30                            | Single  | 0.022                                           | 0.036  | –    | –    | 19                                                | 33                 | 50                 |
| FDB6676S                                   | 30                            | SyncFET | 0.0065                                          | 0.008  | –    | –    | 40                                                | 76                 | 70                 |
| FDB6670S                                   | 30                            | SyncFET | 0.0085                                          | 0.0105 | –    | –    | 23                                                | 62                 | 62.5               |
| FDB6644S                                   | 30                            | SyncFET | 0.01                                            | 0.012  | –    | –    | 27                                                | 55                 | 60                 |
| FDB7030BLS                                 | 30                            | SyncFET | 0.0105                                          | 0.0165 | –    | –    | 15                                                | 56                 | 65                 |
| FDB6690S                                   | 30                            | SyncFET | 0.0155                                          | 0.023  | –    | –    | 11                                                | 42                 | 48                 |
| HUF75345S3S                                | 55                            | Single  | 0.007                                           | –      | –    | –    | 125                                               | 75                 | 325                |

**TO-263 (D<sup>2</sup>PAK) (Continued)**

| Part Number   | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|---------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|               |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| HUFA75345S3S  | 55                            | Single  | 0.007                                           | –        | –    | –    | 125                                               | 75                 | 325                |
| HUF75344S3S   | 55                            | Single  | 0.008                                           | –        | –    | –    | 90                                                | 75                 | 285                |
| HUFA75344S3S  | 55                            | Single  | 0.008                                           | –        | –    | –    | 90                                                | 75                 | 285                |
| HUFA75343S3S  | 55                            | Single  | 0.009                                           | –        | –    | –    | 92                                                | 75                 | 270                |
| HUFA75339S3S  | 55                            | Single  | 0.012                                           | –        | –    | –    | 60                                                | 75                 | 200                |
| HUF75337S3S   | 55                            | Single  | 0.014                                           | –        | –    | –    | 51                                                | 75                 | 175                |
| HUFA75337S3S  | 55                            | Single  | 0.014                                           | –        | –    | –    | 51                                                | 75                 | 175                |
| HUF75333S3S   | 55                            | Single  | 0.016                                           | –        | –    | –    | 40                                                | 66                 | 150                |
| HUF75332S3S   | 55                            | Single  | 0.019                                           | –        | –    | –    | 40                                                | 60                 | 145                |
| HUFA75332S3S  | 55                            | Single  | 0.019                                           | –        | –    | –    | 40                                                | 60                 | 145                |
| HUFA75329S3S  | 55                            | Single  | 0.024                                           | –        | –    | –    | 35                                                | 49                 | 128                |
| HUF75321S3S   | 55                            | Single  | 0.034                                           | –        | –    | –    | 21                                                | 35                 | 93                 |
| HUFA75321S3S  | 55                            | Single  | 0.034                                           | –        | –    | –    | 21                                                | 35                 | 93                 |
| FDB035AN06A0  | 60                            | Single  | 0.0035                                          | –        | –    | –    | 95                                                | 80                 | 310                |
| FDB050AN06A0  | 60                            | Single  | 0.005                                           | –        | –    | –    | 61                                                | 80                 | 245                |
| HUF76445S3S   | 60                            | Single  | 0.0065                                          | 0.0075   | –    | –    | 124                                               | 75                 | 310                |
| HUFA76445S3S  | 60                            | Single  | 0.0065                                          | 0.0075   | –    | –    | 124                                               | 75                 | 310                |
| FDB070AN06A0  | 60                            | Single  | 0.007                                           | –        | –    | –    | 51                                                | 15                 | 175                |
| HUF76443S3S   | 60                            | Single  | 0.008                                           | 0.0095   | –    | –    | 107                                               | 75                 | 260                |
| HUFA76443S3S  | 60                            | Single  | 0.008                                           | 0.0095   | –    | –    | 107                                               | 75                 | 260                |
| FDB5645       | 60                            | Single  | 0.0095                                          | –        | –    | –    | 76                                                | 80                 | 125                |
| FQB85N06      | 60                            | Single  | 0.01                                            | –        | –    | –    | 86                                                | 85                 | 160                |
| FDB10AN06A0   | 60                            | Single  | 0.0105                                          | –        | –    | –    | 28                                                | 75                 | 135                |
| FDB14AN06LA0  | 60                            | Single  | 0.011                                           | 0.014@5V | –    | –    | 24                                                | 61                 | 125                |
| HUF76439S3S   | 60                            | Single  | 0.012                                           | 0.014    | –    | –    | 70                                                | 75                 | 180                |
| HUFA76439S3S  | 60                            | Single  | 0.012                                           | 0.014    | –    | –    | 70                                                | 75                 | 180                |
| FDB13AN06A0   | 60                            | Single  | 0.013                                           | –        | –    | –    | 22                                                | 64                 | 115                |
| HUF76437S3S   | 60                            | Single  | 0.014                                           | 0.017    | –    | –    | 59                                                | 71                 | 155                |
| HUFA76437S3S  | 60                            | Single  | 0.014                                           | 0.017    | –    | –    | 59                                                | 71                 | 155                |
| FQB65N06      | 60                            | Single  | 0.016                                           | –        | –    | –    | 48                                                | 65                 | 150                |
| HUFA75433S3ST | 60                            | Single  | 0.016                                           | –        | –    | –    | 50                                                | 64                 | 150                |
| HUF76432S3S   | 60                            | Single  | 0.017                                           | 0.019    | –    | –    | 44                                                | 59                 | 130                |



**TO-263 (D<sup>2</sup>PAK) (Continued)**

| Part Number  | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|              |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| HUFA76432S3S | 60                            | Single  | 0.017                                           | 0.019    | –    | –    | 44                                                | 59                 | 130                |
| FDB20AN06A0  | 60                            | Single  | 0.02                                            | –        | –    | –    | 15                                                | 45                 | 90                 |
| FDB5680      | 60                            | Single  | 0.02                                            | –        | –    | –    | 33                                                | 40                 | 65                 |
| FQB55N06     | 60                            | Single  | 0.02                                            | –        | –    | –    | 35                                                | 55                 | 133                |
| FQB50N06L    | 60                            | Single  | 0.021                                           | 0.025@5V | –    | –    | 24.5                                              | 52                 | 121                |
| FQB50N06     | 60                            | Single  | 0.022                                           | –        | –    | –    | 31                                                | 50                 | 120                |
| RF1S50N06SM  | 60                            | Single  | 0.022                                           | –        | –    | –    | 67                                                | 50                 | 131                |
| HUF76429S3S  | 60                            | Single  | 0.022                                           | 0.025    | –    | –    | 38                                                | 47                 | 110                |
| HUFA76429S3S | 60                            | Single  | 0.022                                           | 0.025    | –    | –    | 38                                                | 47                 | 110                |
| FDB5690      | 60                            | Single  | 0.027                                           | –        | –    | –    | 23                                                | 32                 | 58                 |
| HUF76423S3S  | 60                            | Single  | 0.03                                            | 0.035    | –    | –    | 28                                                | 35                 | 85                 |
| HUFA76423S3S | 60                            | Single  | 0.03                                            | 0.035    | –    | –    | 28                                                | 35                 | 85                 |
| HUF76419S3S  | 60                            | Single  | 0.035                                           | 0.04     | –    | –    | 22                                                | 29                 | 75                 |
| HUFA76419S3S | 60                            | Single  | 0.035                                           | 0.04     | –    | –    | 22                                                | 29                 | 75                 |
| FQB30N06L    | 60                            | Single  | 0.035                                           | 0.045@5V | –    | –    | 15                                                | 32                 | 79                 |
| FQB30N06     | 60                            | Single  | 0.04                                            | –        | –    | –    | 19                                                | 30                 | 79                 |
| FQB20N06L    | 60                            | Single  | 0.055                                           | 0.07@5V  | –    | –    | 9.5                                               | 21                 | 53                 |
| FQB20N06     | 60                            | Single  | 0.06                                            | –        | –    | –    | 11.5                                              | 20                 | 53                 |
| FQB13N06L    | 60                            | Single  | 0.11                                            | 0.14@5V  | –    | –    | 4.8                                               | 13.6               | 45                 |
| FQB13N06     | 60                            | Single  | 0.135                                           | –        | –    | –    | 5.8                                               | 13                 | 45                 |
| FDB045AN08A0 | 75                            | Single  | 0.0045                                          | –        | –    | –    | 92                                                | 80                 | 310                |
| FDB060AN08A0 | 75                            | Single  | 0.006                                           | –        | –    | –    | 99                                                | 80                 | 285                |
| FDB16AN08A0  | 75                            | Single  | 0.016                                           | –        | –    | –    | 28                                                | 58                 | 135                |
| HUF75545S3S  | 80                            | Single  | 0.01                                            | –        | –    | –    | 105                                               | 75                 | 270                |
| HUFA75545S3S | 80                            | Single  | 0.01                                            | –        | –    | –    | 105                                               | 75                 | 270                |
| HUF75542S3S  | 80                            | Single  | 0.014                                           | –        | –    | –    | 80                                                | 75                 | 230                |
| HUFA75542S3S | 80                            | Single  | 0.014                                           | –        | –    | –    | 80                                                | 75                 | 230                |
| FQB90N08     | 80                            | Single  | 0.016                                           | –        | –    | –    | 84                                                | 71                 | 160                |
| FQB70N08     | 80                            | Single  | 0.017                                           | –        | –    | –    | 75                                                | 70                 | 155                |
| FQB44N08     | 80                            | Single  | 0.034                                           | –        | –    | –    | 38                                                | 44                 | 127                |
| FQB24N08     | 80                            | Single  | 0.06                                            | –        | –    | –    | 19                                                | 24                 | 75                 |
| FQB17N08L    | 80                            | Single  | 0.1                                             | 0.115@5V | –    | –    | 8.8                                               | 16.5               | 65                 |

**TO-263 (D<sup>2</sup>PAK) (Continued)**

| Part Number  | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|              |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| FQB17N08     | 80                            | Single  | 0.115                                           | –        | –    | –    | 12                                                | 16.5               | 65                 |
| FQB9N08      | 80                            | Single  | 0.21                                            | –        | –    | –    | 5.9                                               | 9.3                | 40                 |
| FQB9N08L     | 80                            | Single  | 0.21                                            | 0.23@5V  | –    | –    | 4.7                                               | 9.3                | 40                 |
| FDB3632      | 100                           | Single  | 0.009                                           | –        | –    | –    | 84                                                | 80                 | 310                |
| HUF75645S3S  | 100                           | Single  | 0.014                                           | –        | –    | –    | 106                                               | 75                 | 310                |
| HUFA75645S3S | 100                           | Single  | 0.014                                           | –        | –    | –    | 106                                               | 75                 | 310                |
| HUF76645S3S  | 100                           | Single  | 0.014                                           | 0.015    | –    | –    | 127                                               | 75                 | 310                |
| HUFA76645S3S | 100                           | Single  | 0.014                                           | 0.015    | –    | –    | 127                                               | 75                 | 310                |
| FDB3652      | 100                           | Single  | 0.016                                           | –        | –    | –    | 44                                                | 61                 | 150                |
| FQB70N10     | 100                           | Single  | 0.025                                           | –        | –    | –    | 85                                                | 57                 | 160                |
| HUF75639S3S  | 100                           | Single  | 0.025                                           | –        | –    | –    | 57                                                | 56                 | 200                |
| HUFA75639S3S | 100                           | Single  | 0.025                                           | –        | –    | –    | 57                                                | 56                 | 200                |
| FQB55N10     | 100                           | Single  | 0.026                                           | –        | –    | –    | 75                                                | 55                 | 155                |
| HUF76639S3S  | 100                           | Single  | 0.026                                           | 0.027    | –    | –    | 71                                                | 51                 | 180                |
| HUFA76639S3S | 100                           | Single  | 0.026                                           | 0.027    | –    | –    | 71                                                | 51                 | 180                |
| HUF75637S3S  | 100                           | Single  | 0.03                                            | –        | –    | –    | 48                                                | 44                 | 155                |
| HUFA75637S3S | 100                           | Single  | 0.03                                            | –        | –    | –    | 48                                                | 44                 | 155                |
| HUF76633S3S  | 100                           | Single  | 0.035                                           | 0.036    | –    | –    | 56                                                | 39                 | 145                |
| HUFA76633S3S | 100                           | Single  | 0.035                                           | 0.036    | –    | –    | 56                                                | 39                 | 145                |
| FDB3682      | 100                           | Single  | 0.036                                           | –        | –    | –    | 18.5                                              | 32                 | 95                 |
| FQB44N10     | 100                           | Single  | 0.039                                           | –        | –    | –    | 48                                                | 43.5               | 146                |
| HUF75631S3S  | 100                           | Single  | 0.04                                            | –        | –    | –    | 35                                                | 33                 | 120                |
| HUFA75631S3S | 100                           | Single  | 0.04                                            | –        | –    | –    | 35                                                | 33                 | 120                |
| IRFW550A     | 100                           | Single  | 0.04                                            | –        | –    | –    | 75                                                | 40                 | 167                |
| RF1S40N10SM  | 100                           | Single  | 0.04                                            | –        | –    | –    | 115                                               | 40                 | 160                |
| FQB33N10     | 100                           | Single  | 0.052                                           | –        | –    | –    | 38                                                | 33                 | 127                |
| IRFW540A     | 100                           | Single  | 0.052                                           | –        | –    | –    | 60                                                | 28                 | 107                |
| FQB33N10L    | 100                           | Single  | 0.052                                           | 0.055@5V | –    | –    | 30                                                | 33                 | 127                |
| IRLW540A     | 100                           | Single  | –                                               | 0.058@5V | –    | –    | 38.4                                              | 28                 | 121                |
| HUF75623S3S  | 100                           | Single  | 0.064                                           | –        | –    | –    | 23                                                | 22                 | 85                 |
| HUFA75623S3S | 100                           | Single  | 0.064                                           | –        | –    | –    | 23                                                | 22                 | 85                 |
| FQB19N10     | 100                           | Single  | 0.1                                             | –        | –    | –    | 19                                                | 19                 | 75                 |

**TO-263 (D<sup>2</sup>PAK) (Continued)**

| Part Number  | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|---------------------------------------------------|--------------------|--------------------|
|              |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                   |                    |                    |
| FQB19N10L    | 100                           | Single  | 0.1                                             | 0.11@5V | –    | –    | 14                                                | 19                 | 75                 |
| IRLW530A     | 100                           | Single  | –                                               | 0.12@5V | –    | –    | 16.9                                              | 14                 | 62                 |
| IRFW530A     | 100                           | Single  | 0.11                                            | –       | –    | –    | 27                                                | 14                 | 55                 |
| FQB13N10     | 100                           | Single  | 0.18                                            | –       | –    | –    | 12                                                | 12.8               | 65                 |
| FQB13N10L    | 100                           | Single  | 0.18                                            | 0.2@5V  | –    | –    | 8.7                                               | 12.8               | 65                 |
| IRLW520A     | 100                           | Single  | –                                               | 0.22@5V | –    | –    | 10.2                                              | 9.2                | 49                 |
| IRFW520A     | 100                           | Single  | 0.2                                             | –       | –    | –    | 16                                                | 9.2                | 45                 |
| FQB7N10      | 100                           | Single  | 0.35                                            | –       | –    | –    | 5.8                                               | 7.3                | 40                 |
| FQB7N10L     | 100                           | Single  | 0.35                                            | 0.38@5V | –    | –    | 4.6                                               | 7.3                | 40                 |
| IRLW510A     | 100                           | Single  | –                                               | 0.44@5V | –    | –    | 5.5                                               | 5.6                | 37                 |
| IRFW510A     | 100                           | Single  | 0.4                                             | –       | –    | –    | 8.5                                               | 5.6                | 33                 |
| FDB2532      | 150                           | Single  | 0.016                                           | –       | –    | –    | 86                                                | 79                 | 310                |
| FDB2552      | 150                           | Single  | 0.036                                           | –       | –    | –    | 41                                                | 37                 | 150                |
| FDB42AN15A0  | 150                           | Single  | 0.042                                           | –       | –    | –    | 30                                                | 35                 | 150                |
| FQB46N15     | 150                           | Single  | 0.042                                           | –       | –    | –    | 85                                                | 45.6               | 210                |
| HUFA75842S3S | 150                           | Single  | 0.042                                           | –       | –    | –    | 77                                                | 43                 | 230                |
| FDB2572      | 150                           | Single  | 0.056                                           | –       | –    | –    | 27                                                | 29                 | 135                |
| FDB2570      | 150                           | Single  | 0.08                                            | –       | –    | –    | 40                                                | 22                 | 93                 |
| FQB16N15     | 150                           | Single  | 0.16                                            | –       | –    | –    | 23                                                | 16.4               | 108                |
| FQB14N15     | 150                           | Single  | 0.21                                            | –       | –    | –    | 18                                                | 14.4               | 104                |
| FQB9N15      | 150                           | Single  | 0.4                                             | –       | –    | –    | 10                                                | 9                  | 75                 |
| FQB6N15      | 150                           | Single  | 0.6                                             | –       | –    | –    | 6.5                                               | 6.4                | 63                 |
| FQB5N15      | 150                           | Single  | 0.8                                             | –       | –    | –    | 5.4                                               | 5.4                | 54                 |
| FQB34N20     | 200                           | Single  | 0.075                                           | –       | –    | –    | 60                                                | 31                 | 180                |
| IRFW650B     | 200                           | Single  | 0.085                                           | –       | –    | –    | 95                                                | 28                 | 156                |
| FDB2670      | 200                           | Single  | 0.13                                            | –       | –    | –    | 27                                                | 19                 | 93                 |
| FQB19N20L    | 200                           | Single  | 0.14                                            | 0.15@5V | –    | –    | 27                                                | 21                 | 140                |
| IRLW640A     | 200                           | Single  | –                                               | 0.18@5V | –    | –    | 40                                                | 18                 | 110                |
| FQB19N20     | 200                           | Single  | 0.15                                            | –       | –    | –    | 31                                                | 19.4               | 140                |
| IRFW640B     | 200                           | Single  | 0.18                                            | –       | –    | –    | 45                                                | 18                 | 139                |
| FQB12N20     | 200                           | Single  | 0.28                                            | –       | –    | –    | 18                                                | 11.6               | 90                 |
| FQB12N20L    | 200                           | Single  | 0.28                                            | 0.32@5V | –    | –    | 16                                                | 11.6               | 90                 |

**TO-263 (D<sup>2</sup>PAK) (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                   |                    |                    |
| FQB10N20    | 200                           | Single  | 0.36                                            | –       | –    | –    | 13.5                                              | 10                 | 87                 |
| FQB10N20L   | 200                           | Single  | 0.36                                            | 0.38@5V | –    | –    | 13                                                | 10                 | 87                 |
| IRLW630A    | 200                           | Single  | –                                               | 0.4@5V  | –    | –    | 18.6                                              | 9                  | 69                 |
| FQB630      | 200                           | Single  | 0.4                                             | –       | –    | –    | 19                                                | 9                  | 78                 |
| IRFW630B    | 200                           | Single  | 0.4                                             | –       | –    | –    | 22                                                | 9                  | 72                 |
| FQB7N20     | 200                           | Single  | 0.69                                            | –       | –    | –    | 8                                                 | 6.6                | 63                 |
| FQB7N20L    | 200                           | Single  | 0.75                                            | 0.78@5V | –    | –    | 6.8                                               | 6.5                | 63                 |
| IRLW620A    | 200                           | Single  | –                                               | 0.8@5V  | –    | –    | 10.3                                              | 5                  | 39                 |
| IRFW620B    | 200                           | Single  | 0.8                                             | –       | –    | –    | 12                                                | 5                  | 47                 |
| FQB5N20     | 200                           | Single  | 1.2                                             | –       | –    | –    | 6                                                 | 4.5                | 52                 |
| FQB5N20L    | 200                           | Single  | 1.2                                             | 1.25@5V | –    | –    | 4.8                                               | 4.5                | 52                 |
| FQB4N20L    | 200                           | Single  | 1.35                                            | 1.4@5V  | –    | –    | 4                                                 | 3.8                | 45                 |
| IRLW610A    | 200                           | Single  | –                                               | 1.5@5V  | –    | –    | 6.1                                               | 3.3                | 33                 |
| FQB4N20     | 200                           | Single  | 1.4                                             | –       | –    | –    | 5                                                 | 3.6                | 45                 |
| IRFW610B    | 200                           | Single  | 1.5                                             | –       | –    | –    | 7.2                                               | 3.3                | 38                 |
| FQB27N25    | 250                           | Single  | 0.11                                            | –       | –    | –    | 50                                                | 25.5               | 180                |
| IRFW654B    | 250                           | Single  | 0.14                                            | –       | –    | –    | 95                                                | 15                 | 156                |
| FQB16N25    | 250                           | Single  | 0.23                                            | –       | –    | –    | 27                                                | 16                 | 142                |
| IRFW644B    | 250                           | Single  | 0.28                                            | –       | –    | –    | 47                                                | 14                 | 139                |
| FQB9N25     | 250                           | Single  | 0.42                                            | –       | –    | –    | 15.5                                              | 9.4                | 90                 |
| IRFW634B    | 250                           | Single  | 0.45                                            | –       | –    | –    | 29                                                | 8.1                | 74                 |
| FQB8N25     | 250                           | Single  | 0.55                                            | –       | –    | –    | 12                                                | 8                  | 87                 |
| FQB6N25     | 250                           | Single  | 1                                               | –       | –    | –    | 6.6                                               | 5.5                | 63                 |
| IRFW624B    | 250                           | Single  | 1.1                                             | –       | –    | –    | 13.5                                              | 4.1                | 49                 |
| FQB4N25     | 250                           | Single  | 1.75                                            | –       | –    | –    | 4.3                                               | 3.6                | 52                 |
| IRFW614B    | 250                           | Single  | 2                                               | –       | –    | –    | 8.1                                               | 2.8                | 40                 |
| FQB3N25     | 250                           | Single  | 2.2                                             | –       | –    | –    | 4                                                 | 2.8                | 45                 |
| FQB14N30    | 300                           | Single  | 0.29                                            | –       | –    | –    | 30                                                | 9.1                | 147                |
| FQB7N30     | 300                           | Single  | 0.7                                             | –       | –    | –    | 13                                                | 7                  | 85                 |
| FQB5N30     | 300                           | Single  | 0.9                                             | –       | –    | –    | 9.8                                               | 5.4                | 70                 |
| FQB3N30     | 300                           | Single  | 2.2                                             | –       | –    | –    | 5.5                                               | 3.2                | 55                 |
| FQB2N30     | 300                           | Single  | 3.7                                             | –       | –    | –    | 3.7                                               | 2.1                | 40                 |

**TO-263 (D<sup>2</sup>PAK) (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                   |                    |                    |
| FQB11N40    | 400                           | Single  | 0.48                                            | –    | –    | –    | 27                                                | 11.4               | 147                |
| IRFW740B    | 400                           | Single  | 0.54                                            | –    | –    | –    | 41                                                | 10                 | 134                |
| FQB7N40     | 400                           | Single  | 0.8                                             | –    | –    | –    | 16.5                                              | 7                  | 98                 |
| IRFW730B    | 400                           | Single  | 1                                               | –    | –    | –    | 25                                                | 5.5                | 73                 |
| FQB5N40     | 400                           | Single  | 1.6                                             | –    | –    | –    | 10                                                | 4.5                | 70                 |
| IRFW720B    | 400                           | Single  | 1.75                                            | –    | –    | –    | 14                                                | 3.3                | 46                 |
| FQB3N40     | 400                           | Single  | 3.4                                             | –    | –    | –    | 6                                                 | 2.5                | 55                 |
| IRFW710B    | 400                           | Single  | 3.4                                             | –    | –    | –    | 7.7                                               | 2                  | 36                 |
| FQB6N45     | 450                           | Single  | 1.1                                             | –    | –    | –    | 16                                                | 6.2                | 98                 |
| FQB12N50    | 500                           | Single  | 0.43                                            | –    | –    | –    | 45                                                | 12.5               | 170                |
| FQB9N50     | 500                           | Single  | 0.73                                            | –    | –    | –    | 28                                                | 9                  | 147                |
| IRFW840B    | 500                           | Single  | 0.85                                            | –    | –    | –    | 41                                                | 8                  | 134                |
| FQB6N50     | 500                           | Single  | 1.3                                             | –    | –    | –    | 17                                                | 5.5                | 98                 |
| IRFW830B    | 500                           | Single  | 1.5                                             | –    | –    | –    | 27                                                | 4.5                | 73                 |
| FQB5N50     | 500                           | Single  | 1.8                                             | –    | –    | –    | 13                                                | 4.5                | 85                 |
| IRFW820B    | 500                           | Single  | 2.6                                             | –    | –    | –    | 14                                                | 2.5                | 49                 |
| FQB4N50     | 500                           | Single  | 2.7                                             | –    | –    | –    | 10                                                | 3.4                | 70                 |
| FQB2N50     | 500                           | Single  | 5.3                                             | –    | –    | –    | 6                                                 | 2.1                | 55                 |
| SSW1N50B    | 500                           | Single  | 5.5                                             | –    | –    | –    | 8.3                                               | 1.5                | 36                 |
| FQB12N60    | 600                           | Single  | 0.7                                             | –    | –    | –    | 42                                                | 10.5               | 180                |
| SSW10N60B   | 600                           | Single  | 0.8                                             | –    | –    | –    | 54                                                | 9                  | 156                |
| FQB7N60     | 600                           | Single  | 1                                               | –    | –    | –    | 29                                                | 7.4                | 142                |
| SSW7N60B    | 600                           | Single  | 1.2                                             | –    | –    | –    | 38                                                | 7                  | 147                |
| FQB6N60     | 600                           | Single  | 1.5                                             | –    | –    | –    | 20                                                | 6.2                | 130                |
| FQB5N60     | 600                           | Single  | 2                                               | –    | –    | –    | 16                                                | 5                  | 120                |
| FQB4N60     | 600                           | Single  | 2.2                                             | –    | –    | –    | 15                                                | 4.4                | 106                |
| SSW4N60B    | 600                           | Single  | 2.5                                             | –    | –    | –    | 22                                                | 4                  | 100                |
| FQB2N60     | 600                           | Single  | 4.7                                             | –    | –    | –    | 9                                                 | 2.4                | 64                 |
| SSW2N60B    | 600                           | Single  | 5                                               | –    | –    | –    | 12.5                                              | 2                  | 54                 |
| FQB1N60     | 600                           | Single  | 11.5                                            | –    | –    | –    | 5                                                 | 1.2                | 40                 |
| SSW1N60B    | 600                           | Single  | 12                                              | –    | –    | –    | 5.9                                               | 1                  | 34                 |
| FQB6N70     | 700                           | Single  | 1.5                                             | –    | –    | –    | 30                                                | 6.2                | 142                |

**TO-263 (D<sup>2</sup>PAK) (Continued)**

| Part Number                                | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------------------|--------------------|--------------------|
|                                            |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                   |                    |                    |
| FQB6N80                                    | 800                           | Single  | 1.95                                            | –    | –    | –    | 31                                                | 5.8                | 158                |
| FQB5N80                                    | 800                           | Single  | 2.6                                             | –    | –    | –    | 25                                                | 4.8                | 140                |
| SSW4N80AS                                  | 800                           | Single  | Replaced by FQB5N80                             |      |      |      |                                                   |                    |                    |
| FQB4N80                                    | 800                           | Single  | 3.6                                             | –    | –    | –    | 19                                                | 3.9                | 130                |
| FQB3N80                                    | 800                           | Single  | 5                                               | –    | –    | –    | 15                                                | 3                  | 107                |
| SSW3N80A                                   | 800                           | Single  | Replaced by FQB3N80                             |      |      |      |                                                   |                    |                    |
| FQB2N80                                    | 800                           | Single  | 6.3                                             | –    | –    | –    | 12                                                | 2.4                | 85                 |
| FQB5N90                                    | 900                           | Single  | 2.3                                             | –    | –    | –    | 31                                                | 5.4                | 158                |
| FQB4N90                                    | 900                           | Single  | 3.1                                             | –    | –    | –    | 24                                                | 4.2                | 140                |
| FQB3N90                                    | 900                           | Single  | 4.25                                            | –    | –    | –    | 20                                                | 3.6                | 130                |
| FQB2NA90                                   | 900                           | Single  | 5.8                                             | –    | –    | –    | 15                                                | 2.8                | 107                |
| FQB2N90                                    | 900                           | Single  | 7.2                                             | –    | –    | –    | 12                                                | 2.2                | 85                 |
| <b>TO-263 (D<sup>2</sup>PAK) P-Channel</b> |                               |         |                                                 |      |      |      |                                                   |                    |                    |
| FQB3P50                                    | -500                          | Single  | 4.9                                             | –    | –    | –    | 18                                                | 2.7                | 85                 |
| FQB1P50                                    | -500                          | Single  | 10.5                                            | –    | –    | –    | 11                                                | 1.5                | 63                 |
| FQB4P40                                    | -400                          | Single  | 3.1                                             | –    | –    | –    | 18                                                | 3.5                | 85                 |
| FQB2P40                                    | -400                          | Single  | 6.5                                             | –    | –    | –    | 10                                                | 2                  | 63                 |
| FQB9P25                                    | -250                          | Single  | 0.62                                            | –    | –    | –    | 29                                                | 9.4                | 120                |
| SFW9644                                    | -250                          | Single  | 0.8                                             | –    | –    | –    | 45                                                | 8.6                | 123                |
| FQB6P25                                    | -250                          | Single  | 1.1                                             | –    | –    | –    | 21                                                | 6                  | 90                 |
| FQB4P25                                    | -250                          | Single  | 2.1                                             | –    | –    | –    | 10                                                | 4                  | 75                 |
| SFW9624                                    | -250                          | Single  | 2.4                                             | –    | –    | –    | 16                                                | 2.7                | 38                 |
| FQB2P25                                    | -250                          | Single  | 4                                               | –    | –    | –    | 6.5                                               | 2.3                | 52                 |
| SFW9614                                    | -250                          | Single  | 4                                               | –    | –    | –    | 9                                                 | 1.6                | 20                 |
| FQB12P20                                   | -200                          | Single  | 0.47                                            | –    | –    | –    | 31                                                | 11.5               | 120                |
| RF1S9640SM                                 | -200                          | Single  | Replaced by FQB12P20                            |      |      |      |                                                   |                    |                    |
| SFW9640                                    | -200                          | Single  | 0.5                                             | –    | –    | –    | 46                                                | 11                 | 123                |
| FQB7P20                                    | -200                          | Single  | 0.69                                            | –    | –    | –    | 19                                                | 7.3                | 90                 |
| SFW9630                                    | -200                          | Single  | 0.8                                             | –    | –    | –    | 29                                                | 6.5                | 70                 |
| FQB5P20                                    | -200                          | Single  | 1.4                                             | –    | –    | –    | 10                                                | 4.8                | 75                 |
| SFW9620                                    | -200                          | Single  | 1.5                                             | –    | –    | –    | 15                                                | 3.5                | 38                 |
| FQB3P20                                    | -200                          | Single  | 2.7                                             | –    | –    | –    | 6                                                 | 2.8                | 52                 |

**TO-263 (D<sup>2</sup>PAK) (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |                    |       | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|--------------------|-------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V               | 1.8V  |                                                   |                    |                    |
| SFW9610     | -200                          | Single  | 3                                               | –    | –                  | –     | 9                                                 | 1.8                | 20                 |
| FQB22P10    | -100                          | Single  | 0.125                                           | –    | –                  | –     | 40                                                | 22                 | 125                |
| FQB17P10    | -100                          | Single  | 0.19                                            | –    | –                  | –     | 30                                                | 16.5               | 100                |
| SFW9540     | -100                          | Single  | 0.2                                             | –    | –                  | –     | 43                                                | 17                 | 132                |
| FQB12P10    | -100                          | Single  | 0.29                                            | –    | –                  | –     | 21                                                | 11.5               | 75                 |
| SFW9530     | -100                          | Single  | 0.3                                             | –    | –                  | –     | 30                                                | 10.5               | 66                 |
| FQB8P10     | -100                          | Single  | 0.53                                            | –    | –                  | –     | 12                                                | 8                  | 65                 |
| SFW9520     | -100                          | Single  | 0.6                                             | –    | –                  | –     | 16                                                | 6                  | 49                 |
| FQB5P10     | -100                          | Single  | 1.05                                            | –    | –                  | –     | 6.3                                               | 4.5                | 40                 |
| SFW9510     | -100                          | Single  | 1.2                                             | –    | –                  | –     | 9                                                 | 3.6                | 32                 |
| FQB27P06    | -60                           | Single  | 0.07                                            | –    | –                  | –     | 33                                                | 27                 | 120                |
| FQB17P06    | -60                           | Single  | 0.12                                            | –    | –                  | –     | 21                                                | 17                 | 79                 |
| SFW9Z34     | -60                           | Single  | 0.14                                            | –    | –                  | –     | 30                                                | 18                 | 82                 |
| FQB11P06    | -60                           | Single  | 0.175                                           | –    | –                  | –     | 13                                                | 11.4               | 53                 |
| SFW9Z24     | -60                           | Single  | 0.28                                            | –    | –                  | –     | 15                                                | 9.7                | 49                 |
| SFW2955     | -60                           | Single  | 0.3                                             | –    | –                  | –     | 15                                                | 9.4                | 49                 |
| FQB7P06     | -60                           | Single  | 0.41                                            | –    | –                  | –     | 6.3                                               | 7                  | 45                 |
| SFW9Z14     | -60                           | Single  | 0.5                                             | –    | –                  | –     | 9                                                 | 6.7                | 38                 |
| FDB6021P    | -20                           | Single  | –                                               | 0.03 | 0.04               | 0.065 | 20                                                | 28                 | 37                 |
| NDB6020P    | -20                           | Single  | –                                               | 0.05 | 0.075<br>0.07@2.7V | –     | 25                                                | 24                 | 60                 |
| FDB4020P    | -20                           | Single  | –                                               | 0.08 | 0.11               | –     | 9.5                                               | 16                 | 37.5               |

**TO-220**

| Part Number             | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------------------|-------------------------------|---------|-------------------------------------------------|--------|------|------|---------------------------------------|--------------------|--------------------|
|                         |                               |         | 10V                                             | 4.5V   | 2.5V | 1.8V |                                       |                    |                    |
| <b>TO-220 N-Channel</b> |                               |         |                                                 |        |      |      |                                       |                    |                    |
| ISL9N302AP3             | 30                            | Single  | 0.0025                                          | 0.0033 | –    | –    | 110                                   | 75                 | 345                |
| ISL9N303AP3             | 30                            | Single  | 0.0032                                          | 0.005  | –    | –    | 61                                    | 75                 | 215                |
| FDP8030L                | 30                            | Single  | 0.0035                                          | 0.0045 | –    | –    | 120                                   | 80                 | 187                |
| FDP7045L                | 30                            | Single  | 0.0045                                          | 0.006  | –    | –    | 50                                    | 100                | 125                |
| ISL9N304AP3             | 30                            | Single  | 0.0045                                          | 0.0075 | –    | –    | 38                                    | 75                 | 145                |
| FDP6676                 | 30                            | Single  | 0.006                                           | 0.0075 | –    | –    | 43                                    | 84                 | 93                 |
| ISL9N306AP3             | 30                            | Single  | 0.006                                           | 0.0095 | –    | –    | 30                                    | 75                 | 125                |
| FDP6670AL               | 30                            | Single  | 0.0065                                          | 0.0085 | –    | –    | 24                                    | 80                 | 68                 |
| FDP7030L                | 30                            | Single  | 0.007                                           | 0.01   | –    | –    | 35                                    | 100                | 125                |
| ISL9N307AP3             | 30                            | Single  | 0.007                                           | 0.0115 | –    | –    | 28                                    | 75                 | 100                |
| FDP7042L                | 30                            | Single  | 0.0075                                          | 0.009  | –    | –    | 32                                    | 50                 | 83                 |
| FDP7030BL               | 30                            | Single  | 0.009                                           | 0.012  | –    | –    | 23                                    | 60                 | 65                 |
| ISL9N310AP3             | 30                            | Single  | 0.01                                            | 0.015  | –    | –    | 17                                    | 62                 | 70                 |
| RFP70N03                | 30                            | Single  | Replaced by ISL9N310AP3                         |        |      |      |                                       |                    |                    |
| FDP6035L                | 30                            | Single  | 0.011                                           | 0.019  | –    | –    | 34                                    | 58                 | 75                 |
| ISL9N312AP3             | 30                            | Single  | 0.012                                           | 0.02   | –    | –    | 13                                    | 58                 | 75                 |
| ISL9N316AP3             | 30                            | Single  | Replaced by ISL9N312AP3                         |        |      |      |                                       |                    |                    |
| FDP6035AL               | 30                            | Single  | 0.0125                                          | 0.017  | –    | –    | 17                                    | 48                 | 58                 |
| FDP6030L                | 30                            | Single  | 0.0135                                          | 0.02   | –    | –    | 34                                    | 52                 | 75                 |
| FQP45N03L               | 30                            | Single  | 0.014                                           | 0.02   | –    | –    | 13                                    | 21                 | 55                 |
| FDB6603AL               | 30                            | Single  | Replaced by FDP6030BL                           |        |      |      |                                       |                    |                    |
| FDP6030BL               | 30                            | Single  | 0.018                                           | 0.024  | –    | –    | 12                                    | 40                 | 60                 |
| HUF76009P3              | 30                            | Single  | Replaced by FDP6030BL                           |        |      |      |                                       |                    |                    |
| HUF76107P3              | 30                            | Single  | 0.052                                           | 0.085  | –    | –    | 4.7                                   | 20                 | 35                 |
| FDP6676S                | 30                            | SyncFET | 0.0065                                          | 0.008  | –    | –    | 40                                    | 76                 | 70                 |
| FDP6670S                | 30                            | SyncFET | 0.0085                                          | 0.0105 | –    | –    | 23                                    | 62                 | 62.5               |
| FDP6644S                | 30                            | SyncFET | 0.01                                            | 0.012  | –    | –    | 27                                    | 55                 | 60                 |
| FDP6690S                | 30                            | SyncFET | 0.0155                                          | 0.023  | –    | –    | 11                                    | 42                 | 48                 |
| HUF75229P3              | 50                            | Single  | 0.022                                           | –      | –    | –    | 35                                    | 44                 | 90                 |
| BUZ11                   | 50                            | Single  | 0.04                                            | –      | –    | –    | –                                     | 30                 | 75                 |
| HUF75345P3              | 55                            | Single  | 0.007                                           | –      | –    | –    | 125                                   | 75                 | 325                |



**TO-220 (Continued)**

| Part Number  | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|              |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| HUFA75345P3  | 55                            | Single  | 0.007                                           | —        | —    | —    | 125                                               | 75                 | 325                |
| HUF75344P3   | 55                            | Single  | 0.008                                           | —        | —    | —    | 90                                                | 75                 | 285                |
| HUFA75344P3  | 55                            | Single  | 0.008                                           | —        | —    | —    | 90                                                | 75                 | 285                |
| HUF75343P3   | 55                            | Single  | 0.009                                           | —        | —    | —    | 92                                                | 75                 | 270                |
| HUFA75343P3  | 55                            | Single  | 0.009                                           | —        | —    | —    | 92                                                | 75                 | 270                |
| HUF75339P3   | 55                            | Single  | 0.012                                           | —        | —    | —    | 60                                                | 75                 | 200                |
| HUFA75339P3  | 55                            | Single  | 0.012                                           | —        | —    | —    | 60                                                | 75                 | 200                |
| HUF75337P3   | 55                            | Single  | 0.014                                           | —        | —    | —    | 51                                                | 75                 | 175                |
| HUFA75337P3  | 55                            | Single  | 0.014                                           | —        | —    | —    | 51                                                | 75                 | 175                |
| HUF75333P3   | 55                            | Single  | 0.016                                           | —        | —    | —    | 40                                                | 66                 | 150                |
| HUFA75333P3  | 55                            | Single  | 0.016                                           | —        | —    | —    | 40                                                | 66                 | 150                |
| HUF75332P3   | 55                            | Single  | 0.019                                           | —        | —    | —    | 40                                                | 60                 | 145                |
| HUFA75332P3  | 55                            | Single  | 0.019                                           | —        | —    | —    | 40                                                | 60                 | 145                |
| HUFA75329P3  | 55                            | Single  | 0.024                                           | —        | —    | —    | 35                                                | 49                 | 128                |
| HUF75329P3   | 55                            | Single  | 0.026                                           | —        | —    | —    | 35                                                | 49                 | 128                |
| HUF75321P3   | 55                            | Single  | 0.034                                           | —        | —    | —    | 21                                                | 35                 | 93                 |
| HUFA75321P3  | 55                            | Single  | 0.034                                           | —        | —    | —    | 21                                                | 35                 | 93                 |
| HUF75309P3   | 55                            | Single  | 0.07                                            | —        | —    | —    | 11                                                | 19                 | 55                 |
| HUFA75309P3  | 55                            | Single  | 0.07                                            | —        | —    | —    | 11                                                | 19                 | 55                 |
| HUFA75307P3  | 55                            | Single  | 0.09                                            | —        | —    | —    | 9                                                 | 15                 | 45                 |
| FDPO38AN06A0 | 60                            | Single  | 0.0038                                          | —        | —    | —    | 95                                                | 80                 | 310                |
| FDPO50AN06A0 | 60                            | Single  | 0.005                                           | —        | —    | —    | 61                                                | 80                 | 245                |
| HUF76445P3   | 60                            | Single  | 0.0065                                          | 0.0075   | —    | —    | 124                                               | 75                 | 310                |
| HUFA76445P3  | 60                            | Single  | 0.0065                                          | 0.0075   | —    | —    | 124                                               | 75                 | 310                |
| FDPO70AN06A0 | 60                            | Single  | 0.007                                           | —        | —    | —    | 51                                                | 15                 | 175                |
| HUF76443P3   | 60                            | Single  | 0.008                                           | 0.0095   | —    | —    | 107                                               | 75                 | 260                |
| HUFA76443P3  | 60                            | Single  | 0.008                                           | 0.0095   | —    | —    | 107                                               | 75                 | 260                |
| FDP5645      | 60                            | Single  | 0.0095                                          | —        | —    | —    | 76                                                | 80                 | 125                |
| FQP85N06     | 60                            | Single  | 0.01                                            | —        | —    | —    | 86                                                | 85                 | 160                |
| FDP10AN06A0  | 60                            | Single  | 0.0105                                          | —        | —    | —    | 28                                                | 75                 | 135                |
| FDP14AN06LA0 | 60                            | Single  | 0.011                                           | 0.014@5V | —    | —    | 24                                                | 61                 | 125                |
| HUF76439P3   | 60                            | Single  | 0.012                                           | 0.014    | —    | —    | 70                                                | 75                 | 180                |

**TO-220 (Continued)**

| Part Number  | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|              |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| HUFA76439P3  | 60                            | Single  | 0.012                                           | 0.014    | —    | —    | 70                                                | 75                 | 180                |
| FDP13AN06A0  | 60                            | Single  | 0.013                                           | —        | —    | —    | 22                                                | 64                 | 115                |
| HUFA76437P3  | 60                            | Single  | 0.014                                           | 0.017    | —    | —    | 59                                                | 71                 | 155                |
| FQP65N06     | 60                            | Single  | 0.016                                           | —        | —    | —    | 48                                                | 65                 | 150                |
| HUF76432P3   | 60                            | Single  | 0.017                                           | 0.019    | —    | —    | 44                                                | 59                 | 130                |
| HUFA76432P3  | 60                            | Single  | 0.017                                           | 0.019    | —    | —    | 44                                                | 59                 | 130                |
| FDP20AN06A0  | 60                            | Single  | 0.02                                            | —        | —    | —    | 15                                                | 45                 | 90                 |
| FDP5680      | 60                            | Single  | 0.02                                            | —        | —    | —    | 33                                                | 40                 | 65                 |
| FQP55N06     | 60                            | Single  | 0.02                                            | —        | —    | —    | 35                                                | 55                 | 133                |
| FQP50N06L    | 60                            | Single  | 0.021                                           | 0.025@5V | —    | —    | 24.5                                              | 52                 | 121                |
| FQP50N06     | 60                            | Single  | 0.022                                           | —        | —    | —    | 31                                                | 50                 | 120                |
| HUF76429P3   | 60                            | Single  | 0.022                                           | 0.025    | —    | —    | 38                                                | 47                 | 110                |
| HUFA76429P3  | 60                            | Single  | 0.022                                           | 0.025    | —    | —    | 38                                                | 47                 | 110                |
| FDP5690      | 60                            | Single  | 0.027                                           | —        | —    | —    | 23                                                | 32                 | 58                 |
| HUF76423P3   | 60                            | Single  | 0.03                                            | 0.035    | —    | —    | 28                                                | 35                 | 85                 |
| HUFA76423P3  | 60                            | Single  | 0.03                                            | 0.035    | —    | —    | 28                                                | 35                 | 85                 |
| HUF76419P3   | 60                            | Single  | 0.035                                           | 0.04     | —    | —    | 22                                                | 29                 | 75                 |
| HUFA76419P3  | 60                            | Single  | 0.035                                           | 0.04     | —    | —    | 22                                                | 29                 | 75                 |
| FQP30N06L    | 60                            | Single  | 0.035                                           | 0.045@5V | —    | —    | 15                                                | 32                 | 79                 |
| FQP30N06     | 60                            | Single  | 0.04                                            | —        | —    | —    | 19                                                | 30                 | 79                 |
| HUFA76413P3  | 60                            | Single  | 0.049                                           | 0.056    | —    | —    | 17                                                | 23                 | 60                 |
| FQP20N06L    | 60                            | Single  | 0.055                                           | 0.07@5V  | —    | —    | 9.5                                               | 21                 | 53                 |
| FQP20N06     | 60                            | Single  | 0.06                                            | —        | —    | —    | 11.5                                              | 20                 | 53                 |
| HUF76409P3   | 60                            | Single  | 0.062                                           | 0.07     | —    | —    | 12                                                | 18                 | 49                 |
| HUFA76409P3  | 60                            | Single  | 0.062                                           | 0.07     | —    | —    | 12                                                | 18                 | 49                 |
| HUF76407P3   | 60                            | Single  | 0.092                                           | 0.107    | —    | —    | 9.4                                               | 13                 | 38                 |
| HUFA76407P3  | 60                            | Single  | 0.092                                           | 0.107    | —    | —    | 9.4                                               | 13                 | 38                 |
| FQP13N06L    | 60                            | Single  | 0.11                                            | 0.14@5V  | —    | —    | 4.8                                               | 13.6               | 45                 |
| FQP13N06     | 60                            | Single  | 0.135                                           | —        | —    | —    | 5.8                                               | 13                 | 45                 |
| FDPO47AN08A0 | 75                            | Single  | 0.0047                                          | —        | —    | —    | 92                                                | 80                 | 310                |
| FDPO60AN08A0 | 75                            | Single  | 0.006                                           | —        | —    | —    | 99                                                | 80                 | 285                |
| FDP16AN08A0  | 75                            | Single  | 0.016                                           | —        | —    | —    | 28                                                | 58                 | 135                |

**TO-220 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| HUF75545P3  | 80                            | Single  | 0.01                                            | —        | —    | —    | 105                                               | 75                 | 270                |
| HUFA75545P3 | 80                            | Single  | 0.01                                            | —        | —    | —    | 105                                               | 75                 | 270                |
| HUF75542P3  | 80                            | Single  | 0.014                                           | —        | —    | —    | 80                                                | 75                 | 230                |
| HUFA75542P3 | 80                            | Single  | 0.014                                           | —        | —    | —    | 80                                                | 75                 | 230                |
| FQP90N08    | 80                            | Single  | 0.016                                           | —        | —    | —    | 84                                                | 71                 | 160                |
| FQP70N08    | 80                            | Single  | 0.017                                           | —        | —    | —    | 75                                                | 70                 | 155                |
| FQP58N08    | 80                            | Single  | 0.024                                           | —        | —    | —    | 50                                                | 57                 | 146                |
| FQP44N08    | 80                            | Single  | 0.034                                           | —        | —    | —    | 38                                                | 44                 | 127                |
| FQP24N08    | 80                            | Single  | 0.06                                            | —        | —    | —    | 19                                                | 24                 | 75                 |
| FQP17N08L   | 80                            | Single  | 0.1                                             | 0.115@5V | —    | —    | 8.8                                               | 16.5               | 65                 |
| FQP17N08    | 80                            | Single  | 0.115                                           | —        | —    | —    | 12                                                | 16.5               | 65                 |
| FQP9N08     | 80                            | Single  | 0.21                                            | —        | —    | —    | 5.9                                               | 9.3                | 40                 |
| FQP9N08L    | 80                            | Single  | 0.21                                            | 0.23@5V  | —    | —    | 4.7                                               | 9.3                | 40                 |
| FDP3632     | 100                           | Single  | 0.009                                           | —        | —    | —    | 84                                                | 80                 | 310                |
| HUF75645P3  | 100                           | Single  | 0.014                                           | —        | —    | —    | 106                                               | 75                 | 310                |
| HUFA75645P3 | 100                           | Single  | 0.014                                           | —        | —    | —    | 106                                               | 75                 | 310                |
| HUF76645P3  | 100                           | Single  | 0.014                                           | 0.015    | —    | —    | 127                                               | 75                 | 310                |
| HUFA76645P3 | 100                           | Single  | 0.014                                           | 0.015    | —    | —    | 127                                               | 75                 | 310                |
| FDP3652     | 100                           | Single  | 0.016                                           | —        | —    | —    | 44                                                | 61                 | 150                |
| FQP70N10    | 100                           | Single  | 0.025                                           | —        | —    | —    | 85                                                | 57                 | 160                |
| HUF75639P3  | 100                           | Single  | 0.025                                           | —        | —    | —    | 57                                                | 56                 | 200                |
| HUFA75639P3 | 100                           | Single  | 0.025                                           | —        | —    | —    | 57                                                | 56                 | 200                |
| FQP55N10    | 100                           | Single  | 0.026                                           | —        | —    | —    | 75                                                | 55                 | 155                |
| HUF76639P3  | 100                           | Single  | 0.026                                           | 0.027    | —    | —    | 71                                                | 51                 | 180                |
| HUFA76639P3 | 100                           | Single  | 0.026                                           | 0.027    | —    | —    | 71                                                | 51                 | 180                |
| HUF75637P3  | 100                           | Single  | 0.03                                            | —        | —    | —    | 48                                                | 44                 | 155                |
| HUFA75637P3 | 100                           | Single  | 0.03                                            | —        | —    | —    | 48                                                | 44                 | 155                |
| HUF76633P3  | 100                           | Single  | 0.035                                           | 0.036    | —    | —    | 56                                                | 39                 | 145                |
| HUFA76633P3 | 100                           | Single  | 0.035                                           | 0.036    | —    | —    | 56                                                | 39                 | 145                |
| FDP3682     | 100                           | Single  | 0.036                                           | —        | —    | —    | 18.5                                              | 32                 | 95                 |
| FQP44N10    | 100                           | Single  | 0.039                                           | —        | —    | —    | 48                                                | 43.5               | 146                |
| HUF75631P3  | 100                           | Single  | 0.04                                            | —        | —    | —    | 35                                                | 33                 | 120                |

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| Part Number  | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|---------------------------------------------------|--------------------|--------------------|
|              |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                   |                    |                    |
| HUFA75631P3  | 100                           | Single  | 0.04                                            | –        | –    | –    | 35                                                | 33                 | 120                |
| IRF550A      | 100                           | Single  | 0.04                                            | –        | –    | –    | 75                                                | 40                 | 167                |
| FQP33N10     | 100                           | Single  | 0.052                                           | –        | –    | –    | 38                                                | 33                 | 127                |
| IRF540A      | 100                           | Single  | 0.052                                           | –        | –    | –    | 60                                                | 28                 | 107                |
| FQP33N10L    | 100                           | Single  | 0.052                                           | 0.055@5V | –    | –    | 30                                                | 33                 | 127                |
| IRL540A      | 100                           | Single  | –                                               | 0.058@5V | –    | –    | 38.4                                              | 28                 | 121                |
| HUF75623P3   | 100                           | Single  | 0.064                                           | –        | –    | –    | 23                                                | 22                 | 85                 |
| HUFA75623P3  | 100                           | Single  | 0.064                                           | –        | –    | –    | 23                                                | 22                 | 85                 |
| FQP19N10     | 100                           | Single  | 0.1                                             | –        | –    | –    | 19                                                | 19                 | 75                 |
| FQP19N10L    | 100                           | Single  | 0.1                                             | 0.11@5V  | –    | –    | 14                                                | 19                 | 75                 |
| IRL530A      | 100                           | Single  | –                                               | 0.12@5V  | –    | –    | 16.9                                              | 14                 | 62                 |
| IRF530A      | 100                           | Single  | 0.11                                            | –        | –    | –    | 27                                                | 14                 | 55                 |
| FQP13N10     | 100                           | Single  | 0.18                                            | –        | –    | –    | 12                                                | 12.8               | 65                 |
| FQP13N10L    | 100                           | Single  | 0.18                                            | 0.2@5V   | –    | –    | 8.7                                               | 12.8               | 65                 |
| IRL520A      | 100                           | Single  | –                                               | 0.22@5V  | –    | –    | 10.2                                              | 9.2                | 49                 |
| IRF520A      | 100                           | Single  | 0.2                                             | –        | –    | –    | 16                                                | 9.2                | 45                 |
| FQP7N10      | 100                           | Single  | 0.35                                            | –        | –    | –    | 5.8                                               | 7.3                | 40                 |
| FQP7N10L     | 100                           | Single  | 0.35                                            | 0.38@5V  | –    | –    | 4.6                                               | 7.3                | 40                 |
| IRL510A      | 100                           | Single  | –                                               | 0.44@5V  | –    | –    | 5.5                                               | 5.6                | 37                 |
| IRF510A      | 100                           | Single  | 0.4                                             | –        | –    | –    | 8.5                                               | 5.6                | 33                 |
| FDP3672      | 105                           | Single  | 0.033                                           | –        | –    | –    | 28                                                | 41                 | 135                |
| FDP2532      | 150                           | Single  | 0.016                                           | –        | –    | –    | 86                                                | 79                 | 310                |
| FDP2552      | 150                           | Single  | 0.036                                           | –        | –    | –    | 41                                                | 37                 | 150                |
| FDP42AN15A0  | 150                           | Single  | 0.042                                           | –        | –    | –    | 30                                                | 35                 | 150                |
| FQP46N15     | 150                           | Single  | 0.042                                           | –        | –    | –    | 85                                                | 45.6               | 210                |
| HUF75842P3   | 150                           | Single  | 0.042                                           | –        | –    | –    | 77                                                | 43                 | 230                |
| HUFA75842P3  | 150                           | Single  | 0.042                                           | –        | –    | –    | 77                                                | 43                 | 230                |
| FDP2572      | 150                           | Single  | 0.056                                           | –        | –    | –    | 27                                                | 29                 | 135                |
| FDP2570      | 150                           | Single  | 0.08                                            | –        | –    | –    | 40                                                | 22                 | 93                 |
| FQP28N15     | 150                           | Single  | 0.09                                            | –        | –    | –    | 40                                                | 28                 | 168                |
| FDP120AN15A0 | 150                           | Single  | 0.12                                            | –        | –    | –    | 11.2                                              | 14                 | 65                 |
| FQP16N15     | 150                           | Single  | 0.16                                            | –        | –    | –    | 23                                                | 16.4               | 108                |

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| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                   |                    |                    |
| FQP14N15    | 150                           | Single  | 0.21                                            | –       | –    | –    | 18                                                | 14.4               | 104                |
| FQP9N15     | 150                           | Single  | 0.4                                             | –       | –    | –    | 10                                                | 9                  | 75                 |
| FQP6N15     | 150                           | Single  | 0.6                                             | –       | –    | –    | 6.5                                               | 6.4                | 63                 |
| SSP45N20B   | 200                           | Single  | 0.065                                           | –       | –    | –    | 133                                               | 35                 | 176                |
| FQP34N20    | 200                           | Single  | 0.075                                           | –       | –    | –    | 60                                                | 31                 | 180                |
| FQP34N20L   | 200                           | Single  | 0.075                                           | 0.08@5V | –    | –    | 55                                                | 31                 | 180                |
| IRL640A     | 200                           | Single  | –                                               | 0.18@5V | –    | –    | 40                                                | 18                 | 110                |
| IRF650B     | 200                           | Single  | 0.085                                           | –       | –    | –    | 95                                                | 28                 | 156                |
| HUF75939P3  | 200                           | Single  | 0.125                                           | –       | –    | –    | 64                                                | 22                 | 180                |
| FDP2670     | 200                           | Single  | 0.13                                            | –       | –    | –    | 27                                                | 19                 | 93                 |
| FQP18N20V2  | 200                           | Single  | 0.14                                            | –       | –    | –    | 20                                                | 18                 | –                  |
| FQP19N20L   | 200                           | Single  | 0.14                                            | 0.15@5V | –    | –    | 27                                                | 21                 | 140                |
| FQP19N20    | 200                           | Single  | 0.15                                            | –       | –    | –    | 31                                                | 19.4               | 140                |
| IRF640B     | 200                           | Single  | 0.18                                            | –       | –    | –    | 45                                                | 18                 | 139                |
| HUF75925P3  | 200                           | Single  | 0.275                                           | –       | –    | –    | 32                                                | 11                 | 100                |
| FQP12N20L   | 200                           | Single  | 0.28                                            | 0.32@5V | –    | –    | 16                                                | 11.6               | 90                 |
| FQP10N20    | 200                           | Single  | 0.36                                            | –       | –    | –    | 13.5                                              | 10                 | 87                 |
| FQP10N20C   | 200                           | Single  | 0.36                                            | –       | –    | –    | 20                                                | 9.5                | 72                 |
| FQP10N20L   | 200                           | Single  | 0.36                                            | 0.38@5V | –    | –    | 13                                                | 10                 | 87                 |
| IRL630A     | 200                           | Single  | –                                               | 0.4@5V  | –    | –    | 18.6                                              | 9                  | 69                 |
| FQP630      | 200                           | Single  | 0.4                                             | –       | –    | –    | 19                                                | 9                  | 78                 |
| IRF630B     | 200                           | Single  | 0.4                                             | –       | –    | –    | 22                                                | 9                  | 72                 |
| FQP7N20     | 200                           | Single  | 0.69                                            | –       | –    | –    | 8                                                 | 6.6                | 63                 |
| FQP7N20L    | 200                           | Single  | 0.75                                            | 0.78@5V | –    | –    | 6.8                                               | 6.5                | 63                 |
| IRL620A     | 200                           | Single  | –                                               | 0.8@5V  | –    | –    | 10.3                                              | 5                  | 39                 |
| IRF620B     | 200                           | Single  | 0.8                                             | –       | –    | –    | 12                                                | 5                  | 47                 |
| FQP5N20     | 200                           | Single  | 1.2                                             | –       | –    | –    | 6                                                 | 4.5                | 52                 |
| FQP5N20L    | 200                           | Single  | 1.2                                             | 1.25@5V | –    | –    | 4.8                                               | 4.5                | 52                 |
| FQP4N20L    | 200                           | Single  | 1.35                                            | 1.4@5V  | –    | –    | 4                                                 | 3.8                | 45                 |
| IRL610A     | 200                           | Single  | –                                               | 1.5@5V  | –    | –    | 6.1                                               | 3.3                | 33                 |
| FQP4N20     | 200                           | Single  | 1.4                                             | –       | –    | –    | 5                                                 | 3.6                | 45                 |
| IRF610B     | 200                           | Single  | 1.5                                             | –       | –    | –    | 7.2                                               | 3.3                | 38                 |

**TO-220 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                   |                    |                    |
| FQP27N25    | 250                           | Single  | 0.11                                            | —    | —    | —    | 50                                                | 25.5               | 180                |
| IRF654B     | 250                           | Single  | 0.14                                            | —    | —    | —    | 95                                                | 15                 | 156                |
| FQP16N25    | 250                           | Single  | 0.23                                            | —    | —    | —    | 27                                                | 16                 | 142                |
| IRF644B     | 250                           | Single  | 0.28                                            | —    | —    | —    | 47                                                | 14                 | 139                |
| FQP9N25     | 250                           | Single  | 0.42                                            | —    | —    | —    | 15.5                                              | 9.4                | 90                 |
| IRF634B     | 250                           | Single  | 0.45                                            | —    | —    | —    | 29                                                | 8.1                | 74                 |
| FQP6N25     | 250                           | Single  | 1                                               | —    | —    | —    | 6.6                                               | 5.5                | 63                 |
| IRF624B     | 250                           | Single  | 1.1                                             | —    | —    | —    | 13.5                                              | 4.1                | 49                 |
| FQP4N25     | 250                           | Single  | 1.75                                            | —    | —    | —    | 4.3                                               | 3.6                | 52                 |
| IRF614B     | 250                           | Single  | 2                                               | —    | —    | —    | 8.1                                               | 2.8                | 40                 |
| FQP3N25     | 250                           | Single  | 2.2                                             | —    | —    | —    | 4                                                 | 2.8                | 45                 |
| FQP22N30    | 300                           | Single  | 0.16                                            | —    | —    | —    | 47                                                | 21                 | 170                |
| FQP14N30    | 300                           | Single  | 0.29                                            | —    | —    | —    | 30                                                | 9.1                | 147                |
| FQP9N30     | 300                           | Single  | 0.45                                            | —    | —    | —    | 17                                                | 9                  | 98                 |
| FQP5N30     | 300                           | Single  | 0.9                                             | —    | —    | —    | 9.8                                               | 5.4                | 70                 |
| FQP3N30     | 300                           | Single  | 2.2                                             | —    | —    | —    | 5.5                                               | 3.2                | 55                 |
| FQP2N30     | 300                           | Single  | 3.7                                             | —    | —    | —    | 3.7                                               | 1.3                | 16                 |
| FDP20N40    | 400                           | Single  | 0.216                                           | —    | —    | —    | 35                                                | 20                 | 273                |
| FQP17N40    | 400                           | Single  | 0.27                                            | —    | —    | —    | 45                                                | 16                 | 170                |
| FDP13N40    | 400                           | Single  | 0.37                                            | —    | —    | —    | 18.3                                              | 13                 | 250                |
| FQP11N40    | 400                           | Single  | 0.48                                            | —    | —    | —    | 27                                                | 11.4               | 147                |
| IRF740B     | 400                           | Single  | 0.54                                            | —    | —    | —    | 41                                                | 10                 | 134                |
| FQP7N40     | 400                           | Single  | 0.8                                             | —    | —    | —    | 16.5                                              | 7                  | 98                 |
| FQP6N40C    | 400                           | Single  | 1                                               | —    | —    | —    | 16                                                | 6                  | 73                 |
| IRF730B     | 400                           | Single  | 1                                               | —    | —    | —    | 25                                                | 5.5                | 73                 |
| FQP5N40     | 400                           | Single  | 1.6                                             | —    | —    | —    | 10                                                | 4.5                | 70                 |
| IRF720B     | 400                           | Single  | 1.75                                            | —    | —    | —    | 14                                                | 3.3                | 46                 |
| FQP3N40     | 400                           | Single  | 3.4                                             | —    | —    | —    | 6                                                 | 2.5                | 55                 |
| IRF710B     | 400                           | Single  | 3.4                                             | —    | —    | —    | 7.7                                               | 2                  | 36                 |
| IRFF320     | 400                           | Single  | Replaced by IRF710B                             |      |      |      |                                                   |                    |                    |
| FQP2N40     | 400                           | Single  | 5.8                                             | —    | —    | —    | 4                                                 | 1.8                | 40                 |
| FQP6N45     | 450                           | Single  | 1.1                                             | —    | —    | —    | 16                                                | 6.2                | 98                 |

**TO-220 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                       |                    |                    |
| FQP18N50V2  | 500                           | Single  | 0.265                                           | –    | –    | –    | 42                                    | 18                 | 208                |
| FDP15N50    | 500                           | Single  | 0.38                                            | –    | –    | –    | 33                                    | 15                 | 250                |
| FQP13N50    | 500                           | Single  | 0.43                                            | –    | –    | –    | 45                                    | 12.5               | 170                |
| FQP13N50C   | 500                           | Single  | 0.48                                            | –    | –    | –    | 43                                    | 13                 | 195                |
| FDP11N50    | 500                           | Single  | 0.725                                           | –    | –    | –    | 17                                    | 11                 | 250                |
| FQP9N50     | 500                           | Single  | 0.73                                            | –    | –    | –    | 28                                    | 9                  | 147                |
| FQP9N50C    | 500                           | Single  | 0.8                                             | –    | –    | –    | 28                                    | 9                  | 135                |
| IRF840A     | 500                           | Single  | Replaced by IRF840B                             |      |      |      |                                       |                    |                    |
| IRF840B     | 500                           | Single  | 0.85                                            | –    | –    | –    | 41                                    | 8                  | 134                |
| FQP6N50     | 500                           | Single  | 1.3                                             | –    | –    | –    | 17                                    | 5.5                | 98                 |
| FQP5N50C    | 500                           | Single  | 1.4                                             | –    | –    | –    | 18                                    | 5                  | 73                 |
| IRF830B     | 500                           | Single  | 1.5                                             | –    | –    | –    | 27                                    | 4.5                | 73                 |
| IRF820B     | 500                           | Single  | 2.6                                             | –    | –    | –    | 14                                    | 2.5                | 49                 |
| FQP4N50     | 500                           | Single  | 2.7                                             | –    | –    | –    | 10                                    | 3.4                | 70                 |
| FQP2N50     | 500                           | Single  | 5.3                                             | –    | –    | –    | 6                                     | 2.1                | 55                 |
| SSP1N50B    | 500                           | Single  | 5.5                                             | –    | –    | –    | 8.3                                   | 1.5                | 36                 |
| FQP1N50     | 500                           | Single  | 9                                               | –    | –    | –    | 4                                     | 1.4                | 40                 |
| FDP14N60    | 600                           | Single  | 0.49                                            | –    | –    | –    | 36                                    | 14                 | 300                |
| FQP12N60C   | 600                           | Single  | 0.65                                            | –    | –    | –    | 48                                    | 12                 | 225                |
| FQP12N60    | 600                           | Single  | 0.7                                             | –    | –    | –    | 42                                    | 10.5               | 180                |
| FQP10N60C   | 600                           | Single  | 0.73                                            | –    | –    | –    | 44                                    | 9.5                | 156                |
| SSP10N60B   | 600                           | Single  | 0.8                                             | –    | –    | –    | 54                                    | 9                  | 156                |
| FQP7N60     | 600                           | Single  | 1                                               | –    | –    | –    | 29                                    | 7.4                | 142                |
| FQP8N60C    | 600                           | Single  | 1.2                                             | –    | –    | –    | 28                                    | 7.5                | 147                |
| SSP7N60B    | 600                           | Single  | 1.2                                             | –    | –    | –    | 38                                    | 7                  | 147                |
| FQP6N60     | 600                           | Single  | 1.5                                             | –    | –    | –    | 20                                    | 6.2                | 130                |
| FQP4N60     | 600                           | Single  | 2.2                                             | –    | –    | –    | 15                                    | 4.4                | 106                |
| SSP4N60B    | 600                           | Single  | 2.5                                             | –    | –    | –    | 22                                    | 4                  | 100                |
| FQP3N60     | 600                           | Single  | 3.6                                             | –    | –    | –    | 10                                    | 3                  | 75                 |
| FQP2N60     | 600                           | Single  | 4.7                                             | –    | –    | –    | 9                                     | 2.4                | 64                 |
| SSP2N60B    | 600                           | Single  | 5                                               | –    | –    | –    | 12.5                                  | 2                  | 54                 |
| FQP1N60     | 600                           | Single  | 11.5                                            | –    | –    | –    | 5                                     | 1.2                | 40                 |

**TO-220 (Continued)**

| Part Number             | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------------------|--------------------|--------------------|
|                         |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                   |                    |                    |
| SSP1N60B                | 600                           | Single  | 12                                              | —    | —    | —    | 5.9                                               | 1                  | 34                 |
| FQP6N70                 | 700                           | Single  | 1.5                                             | —    | —    | —    | 30                                                | 6.2                | 142                |
| SSP6N70A                | 700                           | Single  | 1.8                                             | —    | —    | —    | 51                                                | 6                  | 130                |
| FQP8N80C                | 800                           | Single  | 1.55                                            | —    | —    | —    | 35                                                | 8                  | 178                |
| FQP7N80C                | 800                           | Single  | 1.9                                             | —    | —    | —    | 27                                                | 6.6                | 167                |
| FQP6N80                 | 800                           | Single  | 1.95                                            | —    | —    | —    | 31                                                | 5.8                | 158                |
| FQP6N80C                | 800                           | Single  | 2.5                                             | —    | —    | —    | 21                                                | 5.5                | 158                |
| FQP5N80                 | 800                           | Single  | 2.6                                             | —    | —    | —    | 25                                                | 4.8                | 140                |
| FQP4N80                 | 800                           | Single  | 3.6                                             | —    | —    | —    | 19                                                | 3.9                | 130                |
| FQP3N80C                | 800                           | Single  | 4.8                                             | —    | —    | —    | 13                                                | 3                  | 107                |
| FQP3N80                 | 800                           | Single  | 5                                               | —    | —    | —    | 15                                                | 3                  | 107                |
| SSP3N80A                | 800                           | Single  | Replaced by FQP3N80                             |      |      |      |                                                   |                    |                    |
| FQP2N80                 | 800                           | Single  | 6.3                                             | —    | —    | —    | 12                                                | 2.4                | 85                 |
| FQP5N90                 | 900                           | Single  | 2.3                                             | —    | —    | —    | 31                                                | 5.4                | 158                |
| FQP6N90C                | 900                           | Single  | 2.3                                             | —    | —    | —    | 30                                                | 6                  | 167                |
| FQP4N90                 | 900                           | Single  | 3.1                                             | —    | —    | —    | 24                                                | 4.2                | 140                |
| FQP4N90C                | 900                           | Single  | 4.2                                             | —    | —    | —    | 17                                                | 4                  | 140                |
| FQP3N90                 | 900                           | Single  | 4.25                                            | —    | —    | —    | 20                                                | 3.6                | 130                |
| SSP4N90A                | 900                           | Single  | Replaced by FQP3N90                             |      |      |      |                                                   |                    |                    |
| FQP2NA90                | 900                           | Single  | 5.8                                             | —    | —    | —    | 15                                                | 2.8                | 107                |
| FQP2N90                 | 900                           | Single  | 7.2                                             | —    | —    | —    | 12                                                | 2.2                | 85                 |
| <b>TO-220 P-Channel</b> |                               |         |                                                 |      |      |      |                                                   |                    |                    |
| FQP3P50                 | -500                          | Single  | 4.9                                             | —    | —    | —    | 18                                                | 2.7                | 85                 |
| FQP1P50                 | -500                          | Single  | 10.5                                            | —    | —    | —    | 11                                                | 1.5                | 63                 |
| FQP4P40                 | -400                          | Single  | 3.1                                             | —    | —    | —    | 18                                                | 3.5                | 85                 |
| FQP2P40                 | -400                          | Single  | 6.5                                             | —    | —    | —    | 10                                                | 2                  | 63                 |
| FQP9P25                 | -250                          | Single  | 0.62                                            | —    | —    | —    | 29                                                | 9.4                | 120                |
| SFP9644                 | -250                          | Single  | 0.8                                             | —    | —    | —    | 45                                                | 8.6                | 123                |
| FQP6P25                 | -250                          | Single  | 1.1                                             | —    | —    | —    | 21                                                | 6                  | 90                 |
| SFP9634                 | -250                          | Single  | 1.3                                             | —    | —    | —    | 29                                                | 5                  | 70                 |
| FQP4P25                 | -250                          | Single  | 2.1                                             | —    | —    | —    | 10                                                | 4                  | 75                 |
| FQP2P25                 | -250                          | Single  | 4                                               | —    | —    | —    | 6.5                                               | 2.3                | 52                 |



**TO-220 (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |        |                    |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|--------|--------------------|------|---------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V   | 2.5V               | 1.8V |                                                   |                    |                    |
| SFP9614     | -250                          | Single  | 4                                               | —      | —                  | —    | 9                                                 | 1.6                | 20                 |
| FQP12P20    | -200                          | Single  | 0.47                                            | —      | —                  | —    | 31                                                | 11.5               | 120                |
| SFP9640     | -200                          | Single  | 0.5                                             | —      | —                  | —    | 46                                                | 11                 | 123                |
| FQP7P20     | -200                          | Single  | 0.69                                            | —      | —                  | —    | 19                                                | 7.3                | 90                 |
| SFP9630     | -200                          | Single  | 0.8                                             | —      | —                  | —    | 29                                                | 6.5                | 70                 |
| FQP5P20     | -200                          | Single  | 1.4                                             | —      | —                  | —    | 10                                                | 4.8                | 75                 |
| SFP9620     | -200                          | Single  | 1.5                                             | —      | —                  | —    | 15                                                | 3.5                | 38                 |
| FQP3P20     | -200                          | Single  | 2.7                                             | —      | —                  | —    | 6                                                 | 2.8                | 52                 |
| SFP9610     | -200                          | Single  | 3                                               | —      | —                  | —    | 9                                                 | 1.8                | 20                 |
| SFP9640L    | -200                          | Single  | —                                               | 0.5@5V | —                  | —    | 46                                                | 11                 | 98                 |
| FQP22P10    | -100                          | Single  | 0.125                                           | —      | —                  | —    | 40                                                | 22                 | 125                |
| FQP17P10    | -100                          | Single  | 0.19                                            | —      | —                  | —    | 30                                                | 16.5               | 100                |
| SFP9540     | -100                          | Single  | 0.2                                             | —      | —                  | —    | 43                                                | 17                 | 132                |
| FQP12P10    | -100                          | Single  | 0.29                                            | —      | —                  | —    | 21                                                | 11.5               | 75                 |
| SFP9530     | -100                          | Single  | 0.3                                             | —      | —                  | —    | 30                                                | 10.5               | 66                 |
| FQP8P10     | -100                          | Single  | 0.53                                            | —      | —                  | —    | 12                                                | 8                  | 65                 |
| SFP9520     | -100                          | Single  | 0.6                                             | —      | —                  | —    | 16                                                | 6                  | 49                 |
| FQP5P10     | -100                          | Single  | 1.05                                            | —      | —                  | —    | 6.3                                               | 4.5                | 40                 |
| SFP9510     | -100                          | Single  | 1.2                                             | —      | —                  | —    | 9                                                 | 3.6                | 32                 |
| FQP47P06    | -60                           | Single  | 0.026                                           | —      | —                  | —    | 84                                                | 47                 | 160                |
| FQP27P06    | -60                           | Single  | 0.07                                            | —      | —                  | —    | 33                                                | 27                 | 120                |
| FQP17P06    | -60                           | Single  | 0.12                                            | —      | —                  | —    | 21                                                | 17                 | 79                 |
| SFP9Z34     | -60                           | Single  | 0.14                                            | —      | —                  | —    | 30                                                | 18                 | 82                 |
| FQP11P06    | -60                           | Single  | 0.175                                           | —      | —                  | —    | 13                                                | 11.4               | 53                 |
| SFP9Z24     | -60                           | Single  | 0.28                                            | —      | —                  | —    | 15                                                | 9.7                | 49                 |
| SFP2955     | -60                           | Single  | 0.3                                             | —      | —                  | —    | 15                                                | 9.4                | 49                 |
| FQP7P06     | -60                           | Single  | 0.41                                            | —      | —                  | —    | 6.3                                               | 6.7                | 45                 |
| SFP9Z14     | -60                           | Single  | 0.5                                             | —      | —                  | —    | 9                                                 | 6.7                | 38                 |
| NDP6020P    | -20                           | Single  | —                                               | 0.05   | 0.075<br>0.07@2.7V | —    | 25                                                | 24                 | 60                 |
| FDP4020P    | -20                           | Single  | —                                               | 0.08   | 0.11               | —    | 9.5                                               | 16                 | 37.5               |

**TO-220F**

| Part Number              | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|--------------------------------------------------|--------------------|--------------------|
|                          |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                  |                    |                    |
| <b>TO-220F N-Channel</b> |                               |         |                                                 |          |      |      |                                                  |                    |                    |
| FQPF85N06                | 60                            | Single  | 0.01                                            | –        | –    | –    | 86                                               | 53                 | 62                 |
| FQPF65N06                | 60                            | Single  | 0.016                                           | –        | –    | –    | 48                                               | 40                 | 56                 |
| FQPF50N06L               | 60                            | Single  | 0.021                                           | 0.025@5V | –    | –    | 24.5                                             | 32.6               | 47                 |
| FQPF50N06                | 60                            | Single  | 0.022                                           | –        | –    | –    | 31                                               | 31                 | 47                 |
| FQPF30N06L               | 60                            | Single  | 0.035                                           | 0.045@5V | –    | –    | 15                                               | 22.5               | 38                 |
| FQPF30N06                | 60                            | Single  | 0.04                                            | –        | –    | –    | 19                                               | 21                 | 39                 |
| FQPF20N06L               | 60                            | Single  | 0.055                                           | 0.07@5V  | –    | –    | 9.5                                              | 15.7               | 30                 |
| FQPF20N06                | 60                            | Single  | 0.06                                            | –        | –    | –    | 11.5                                             | 15                 | 30                 |
| FQPF13N06L               | 60                            | Single  | 0.11                                            | 0.14@5V  | –    | –    | 4.8                                              | 10                 | 24                 |
| FQPF13N06                | 60                            | Single  | 0.135                                           | –        | –    | –    | 5.8                                              | 9.4                | 24                 |
| FQPF90N08                | 80                            | Single  | 0.016                                           | –        | –    | –    | 84                                               | 44                 | 62                 |
| FQPF70N08                | 80                            | Single  | 0.017                                           | –        | –    | –    | 75                                               | 43.6               | 60                 |
| FQPF58N08                | 80                            | Single  | 0.024                                           | –        | –    | –    | 50                                               | 35                 | 55                 |
| FQPF44N08                | 80                            | Single  | 0.034                                           | –        | –    | –    | 38                                               | 25                 | 41                 |
| FQPF17N08L               | 80                            | Single  | 0.1                                             | 0.115@5V | –    | –    | 8.8                                              | 11.2               | 30                 |
| FQPF17N08                | 80                            | Single  | 0.115                                           | –        | –    | –    | 12                                               | 11.2               | 30                 |
| FQPF9N08                 | 80                            | Single  | 0.21                                            | –        | –    | –    | 5.9                                              | 7                  | 23                 |
| FQPF9N08L                | 80                            | Single  | 0.21                                            | 0.23@5V  | –    | –    | 4.7                                              | 7                  | 23                 |
| SSS70N10A                | 100                           | Single  | 0.023                                           | –        | –    | –    | 151                                              | 28                 | 49                 |
| FQPF70N10                | 100                           | Single  | 0.025                                           | –        | –    | –    | 85                                               | 35                 | 62                 |
| FQPF55N10                | 100                           | Single  | 0.026                                           | –        | –    | –    | 75                                               | 34.2               | 60                 |
| FQPF44N10                | 100                           | Single  | 0.039                                           | –        | –    | –    | 48                                               | 27                 | 55                 |
| IRFS550A                 | 100                           | Single  | 0.04                                            | –        | –    | –    | 75                                               | 21                 | 46                 |
| FQPF33N10                | 100                           | Single  | 0.052                                           | –        | –    | –    | 38                                               | 18                 | 41                 |
| IRFS540A                 | 100                           | Single  | 0.052                                           | –        | –    | –    | 60                                               | 17                 | 39                 |
| FQPF33N10L               | 100                           | Single  | 0.052                                           | 0.055@5V | –    | –    | 30                                               | 18                 | 41                 |
| IRLS540A                 | 100                           | Single  | –                                               | 0.058@5V | –    | –    | 38.4                                             | 17                 | 44                 |
| FQPF19N10                | 100                           | Single  | 0.1                                             | –        | –    | –    | 19                                               | 13.6               | 38                 |
| FQPF19N10L               | 100                           | Single  | 0.1                                             | 0.11@5V  | –    | –    | 14                                               | 13.6               | 38                 |
| IRLS530A                 | 100                           | Single  | –                                               | 0.12@5V  | –    | –    | 16.9                                             | 10.7               | 36                 |
| IRFS530A                 | 100                           | Single  | 0.11                                            | –        | –    | –    | 27                                               | 10.7               | 32                 |

**TO-220F (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|--------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                  |                    |                    |
| FQPF13N10   | 100                           | Single  | 0.18                                            | –       | –    | –    | 12                                               | 8.7                | 30                 |
| FQPF13N10L  | 100                           | Single  | 0.18                                            | 0.2@5V  | –    | –    | 8.7                                              | 8.7                | 30                 |
| IRLS520A    | 100                           | Single  | –                                               | 0.22@5V | –    | –    | 10.2                                             | 7.2                | 30                 |
| IRFS520A    | 100                           | Single  | 0.2                                             | –       | –    | –    | 16                                               | 7.2                | 28                 |
| FQPF7N10    | 100                           | Single  | 0.35                                            | –       | –    | –    | 5.8                                              | 5.5                | 23                 |
| FQPF7N10L   | 100                           | Single  | 0.35                                            | 0.38@5V | –    | –    | 4.6                                              | 5.5                | 23                 |
| IRLS510A    | 100                           | Single  | –                                               | 0.44@5V | –    | –    | 5.5                                              | 4.5                | 23                 |
| IRFS510A    | 100                           | Single  | 0.4                                             | –       | –    | –    | 8.5                                              | 4.5                | 21                 |
| FQPF46N15   | 150                           | Single  | 0.042                                           | –       | –    | –    | 85                                               | 25.6               | 66                 |
| FQPF28N15   | 150                           | Single  | 0.09                                            | –       | –    | –    | 40                                               | 16.7               | 60                 |
| FQPF9N15    | 150                           | Single  | 0.4                                             | –       | –    | –    | 10                                               | 6.9                | 44                 |
| FQPF6N15    | 150                           | Single  | 0.6                                             | –       | –    | –    | 6.5                                              | 5                  | 38                 |
| FQPF5N15    | 150                           | Single  | 0.8                                             | –       | –    | –    | 5.4                                              | 4.2                | 32                 |
| SSS45N20B   | 200                           | Single  | 0.065                                           | –       | –    | –    | 133                                              | 20                 | 57                 |
| FQPF34N20   | 200                           | Single  | 0.075                                           | –       | –    | –    | 60                                               | 17.5               | 55                 |
| FQPF34N20L  | 200                           | Single  | 0.075                                           | 0.08@5V | –    | –    | 55                                               | 17.5               | 55                 |
| IRFS650B    | 200                           | Single  | 0.085                                           | –       | –    | –    | 95                                               | 28                 | 50                 |
| FQPF18N20V2 | 200                           | Single  | 0.14                                            | –       | –    | –    | 20                                               | 18                 | 40                 |
| FQPF19N20L  | 200                           | Single  | 0.14                                            | 0.15@5V | –    | –    | 27                                               | 12.8               | 50                 |
| IRLS640A    | 200                           | Single  | –                                               | 0.18@5V | –    | –    | 40                                               | 9.8                | 40                 |
| FQPF19N20   | 200                           | Single  | 0.15                                            | –       | –    | –    | 31                                               | 11.8               | 50                 |
| IRFS640B    | 200                           | Single  | 0.18                                            | –       | –    | –    | 45                                               | 18                 | 43                 |
| FQPF12N20   | 200                           | Single  | 0.28                                            | –       | –    | –    | 18                                               | 8.2                | 45                 |
| FQPF12N20L  | 200                           | Single  | 0.28                                            | 0.32@5V | –    | –    | 16                                               | 8.2                | 45                 |
| IRLS630A    | 200                           | Single  | –                                               | 0.4@5V  | –    | –    | 18.6                                             | 6.5                | 36                 |
| FQPF10N20   | 200                           | Single  | 0.36                                            | –       | –    | –    | 13.5                                             | 6.8                | 40                 |
| FQPF10N20C  | 200                           | Single  | 0.36                                            | –       | –    | –    | 20                                               | 9.5                | 38                 |
| FQPF630     | 200                           | Single  | 0.4                                             | –       | –    | –    | 19                                               | 6.3                | 38                 |
| IRFS630B    | 200                           | Single  | 0.4                                             | –       | –    | –    | 22                                               | 9                  | 38                 |
| FQPF7N20    | 200                           | Single  | 0.69                                            | –       | –    | –    | 8                                                | 4.8                | 37                 |
| FQPF7N20L   | 200                           | Single  | 0.75                                            | 0.78@5V | –    | –    | 6.8                                              | 5                  | 37                 |
| IRLS620A    | 200                           | Single  | –                                               | 0.8@5V  | –    | –    | 10.3                                             | 4.1                | 26                 |

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| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|--------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                  |                    |                    |
| IRFS620B    | 200                           | Single  | 0.8                                             | —       | —    | —    | 12                                               | 5                  | 32                 |
| FQPF5N20    | 200                           | Single  | 1.2                                             | —       | —    | —    | 6                                                | 3.5                | 32                 |
| FQPF5N20L   | 200                           | Single  | 1.2                                             | 1.25@5V | —    | —    | 4.8                                              | 3.5                | 32                 |
| FQPF4N20L   | 200                           | Single  | 1.35                                            | 1.4@5V  | —    | —    | 4                                                | 3                  | 27                 |
| FQPF4N20    | 200                           | Single  | 1.4                                             | —       | —    | —    | 5                                                | 2.8                | 27                 |
| IRFS610B    | 200                           | Single  | 1.5                                             | —       | —    | —    | 7.2                                              | 3.3                | 22                 |
| FQPF27N25   | 250                           | Single  | 0.11                                            | —       | —    | —    | 50                                               | 14                 | 55                 |
| IRFS654B    | 250                           | Single  | 0.14                                            | —       | —    | —    | 95                                               | 15                 | 50                 |
| FQPF16N25   | 250                           | Single  | 0.23                                            | —       | —    | —    | 27                                               | 9.5                | 50                 |
| IRFS644B    | 250                           | Single  | 0.28                                            | —       | —    | —    | 47                                               | 14                 | 43                 |
| FQPF9N25    | 250                           | Single  | 0.42                                            | —       | —    | —    | 15.5                                             | 6.7                | 45                 |
| IRFS634B    | 250                           | Single  | 0.45                                            | —       | —    | —    | 29                                               | 8.1                | 38                 |
| FQPF6N25    | 250                           | Single  | 1                                               | —       | —    | —    | 6.6                                              | 4                  | 37                 |
| IRFS624B    | 250                           | Single  | 1.1                                             | —       | —    | —    | 13.5                                             | 4.1                | 34                 |
| FQPF4N25    | 250                           | Single  | 1.75                                            | —       | —    | —    | 4.3                                              | 2.8                | 32                 |
| IRFS614B    | 250                           | Single  | 2                                               | —       | —    | —    | 8.1                                              | 2.8                | 22                 |
| FQPF3N25    | 250                           | Single  | 2.2                                             | —       | —    | —    | 4                                                | 2.3                | 27                 |
| FQPF22N30   | 300                           | Single  | 0.16                                            | —       | —    | —    | 47                                               | 12                 | 56                 |
| FQPF14N30   | 300                           | Single  | 0.29                                            | —       | —    | —    | 30                                               | 8.5                | 50                 |
| FQPF9N30    | 300                           | Single  | 0.45                                            | —       | —    | —    | 17                                               | 6                  | 42                 |
| FQPF5N30    | 300                           | Single  | 0.9                                             | —       | —    | —    | 9.8                                              | 3.9                | 35                 |
| FQPF3N30    | 300                           | Single  | 2.2                                             | —       | —    | —    | 5.5                                              | 2                  | 20                 |
| FQPF2N30    | 300                           | Single  | 3.7                                             | —       | —    | —    | 3.7                                              | 2.1                | 40                 |
| FQPF17N40   | 400                           | Single  | 0.27                                            | —       | —    | —    | 45                                               | 9.5                | 56                 |
| IRFS750A    | 400                           | Single  | 0.3                                             | —       | —    | —    | 101                                              | 8.4                | 49                 |
| FQPF11N40   | 400                           | Single  | 0.48                                            | —       | —    | —    | 27                                               | 6.6                | 50                 |
| IRFS740B    | 400                           | Single  | 0.54                                            | —       | —    | —    | 41                                               | 10                 | 44                 |
| FQPF7N40    | 400                           | Single  | 0.8                                             | —       | —    | —    | 16.5                                             | 4.6                | 42                 |
| FQPF6N40C   | 400                           | Single  | 1                                               | —       | —    | —    | 16                                               | 6                  | 38                 |
| IRFS730B    | 400                           | Single  | 1                                               | —       | —    | —    | 25                                               | 5.5                | 38                 |
| FQPF5N40    | 400                           | Single  | 1.6                                             | —       | —    | —    | 10                                               | 3                  | 35                 |
| IRFS720B    | 400                           | Single  | 1.75                                            | —       | —    | —    | 14                                               | 3.3                | 33                 |

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|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|--------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                  |                    |                    |
| FQPF3N40    | 400                           | Single  | 3.4                                             | —    | —    | —    | 6                                                | 1.6                | 20                 |
| IRFS710B    | 400                           | Single  | 3.4                                             | —    | —    | —    | 7.7                                              | 2                  | 23                 |
| FQPF2N40    | 400                           | Single  | 5.8                                             | —    | —    | —    | 4                                                | 1.1                | 16                 |
| FQPF18N50V2 | 500                           | Single  | 0.265                                           | —    | —    | —    | 42                                               | 18                 | 69                 |
| FQPF13N50   | 500                           | Single  | 0.43                                            | —    | —    | —    | 45                                               | 7.3                | 56                 |
| FQPF13N50C  | 500                           | Single  | 0.48                                            | —    | —    | —    | 43                                               | 13                 | 48                 |
| FQPF9N50    | 500                           | Single  | 0.73                                            | —    | —    | —    | 28                                               | 5.3                | 50                 |
| FQPF9N50C   | 500                           | Single  | 0.8                                             | —    | —    | —    | 28                                               | 9                  | 44                 |
| IRFS840B    | 500                           | Single  | 0.85                                            | —    | —    | —    | 41                                               | 8                  | 44                 |
| FQPF6N50    | 500                           | Single  | 1.3                                             | —    | —    | —    | 17                                               | 3.6                | 42                 |
| FQPF5N50C   | 500                           | Single  | 1.4                                             | —    | —    | —    | 18                                               | 5                  | 38                 |
| IRFS830B    | 500                           | Single  | 1.5                                             | —    | —    | —    | 27                                               | 4.5                | 38                 |
| FQPF5N50    | 500                           | Single  | 1.8                                             | —    | —    | —    | 13                                               | 3                  | 39                 |
| IRFS820B    | 500                           | Single  | 2.6                                             | —    | —    | —    | 14                                               | 2.5                | 33                 |
| FQPF4N50    | 500                           | Single  | 2.7                                             | —    | —    | —    | 10                                               | 2.3                | 35                 |
| FQPF2N50    | 500                           | Single  | 5.3                                             | —    | —    | —    | 6                                                | 1.3                | 20                 |
| SSS1N50B    | 500                           | Single  | 5.5                                             | —    | —    | —    | 8.3                                              | 1.2                | 23                 |
| FQPF1N50    | 500                           | Single  | 9                                               | —    | —    | —    | 4                                                | 0.9                | 16                 |
| FQPF12N60C  | 600                           | Single  | 0.65                                            | —    | —    | —    | 48                                               | 12                 | 51                 |
| FQPF12N60   | 600                           | Single  | 0.7                                             | —    | —    | —    | 42                                               | 5.8                | 55                 |
| FQPF10N60C  | 600                           | Single  | 0.73                                            | —    | —    | —    | 44                                               | 9.5                | 50                 |
| SSS10N60B   | 600                           | Single  | 0.8                                             | —    | —    | —    | 54                                               | 9                  | 50                 |
| FQPF7N60    | 600                           | Single  | 1                                               | —    | —    | —    | 29                                               | 4.3                | 48                 |
| FQPF8N60C   | 600                           | Single  | 1.2                                             | —    | —    | —    | 28                                               | 7.5                | 48                 |
| SSS7N60B    | 600                           | Single  | 1.2                                             | —    | —    | —    | 38                                               | 7                  | 48                 |
| FQPF6N60    | 600                           | Single  | 1.5                                             | —    | —    | —    | 20                                               | 3.6                | 44                 |
| FQPF5N60    | 600                           | Single  | 2                                               | —    | —    | —    | 16                                               | 2.8                | 40                 |
| FQPF4N60    | 600                           | Single  | 2.2                                             | —    | —    | —    | 15                                               | 2.6                | 36                 |
| SSS4N60B    | 600                           | Single  | 2.5                                             | —    | —    | —    | 22                                               | 4                  | 33                 |
| FQPF3N60    | 600                           | Single  | 3.6                                             | —    | —    | —    | 10                                               | 2                  | 34                 |
| FQPF2N60    | 600                           | Single  | 4.7                                             | —    | —    | —    | 9                                                | 1.6                | 28                 |
| SSS2N60B    | 600                           | Single  | 5                                               | —    | —    | —    | 12.5                                             | 2                  | 23                 |

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| Part Number              | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|--------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|--------------------------------------------------|--------------------|--------------------|
|                          |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                  |                    |                    |
| FQPF1N60                 | 600                           | Single  | 11.5                                            | —    | —    | —    | 5                                                | 0.9                | 21                 |
| SSS1N60B                 | 600                           | Single  | 12                                              | —    | —    | —    | 5.9                                              | 1                  | 17                 |
| FQPF6N70                 | 700                           | Single  | 1.5                                             | —    | —    | —    | 30                                               | 3.5                | 48                 |
| SSS6N70A                 | 700                           | Single  | 1.8                                             | —    | —    | —    | 51                                               | 4                  | 40                 |
| FQPF2N70                 | 700                           | Single  | 6.3                                             | —    | —    | —    | 8.1                                              | 2                  | 28                 |
| FQPF8N80C                | 800                           | Single  | 1.55                                            | —    | —    | —    | 35                                               | 8                  | 59                 |
| FQPF7N80C                | 800                           | Single  | 1.9                                             | —    | —    | —    | 27                                               | 6.6                | 56                 |
| FQPF6N80                 | 800                           | Single  | 1.95                                            | —    | —    | —    | 31                                               | 3.3                | 51                 |
| FQPF6N80C                | 800                           | Single  | 2.5                                             | —    | —    | —    | 21                                               | 5.5                | 51                 |
| FQPF5N80                 | 800                           | Single  | 2.6                                             | —    | —    | —    | 25                                               | 2.8                | 47                 |
| FQPF4N80                 | 800                           | Single  | 3.6                                             | —    | —    | —    | 19                                               | 2.2                | 43                 |
| FQPF3N80C                | 800                           | Single  | 4.8                                             | —    | —    | —    | 13                                               | 3                  | 39                 |
| FQPF3N80                 | 800                           | Single  | 5                                               | —    | —    | —    | 15                                               | 1.8                | 39                 |
| FQPF2N80                 | 800                           | Single  | 6.3                                             | —    | —    | —    | 12                                               | 1.5                | 35                 |
| FQPF5N90                 | 900                           | Single  | 2.3                                             | —    | —    | —    | 31                                               | 3                  | 51                 |
| FQPF6N90C                | 900                           | Single  | 2.3                                             | —    | —    | —    | 30                                               | 6                  | 56                 |
| FQPF4N90                 | 900                           | Single  | 3.1                                             | —    | —    | —    | 24                                               | 2.5                | 47                 |
| FQPF4N90C                | 900                           | Single  | 4.2                                             | —    | —    | —    | 17                                               | 4                  | 47                 |
| FQPF3N90                 | 900                           | Single  | 4.25                                            | —    | —    | —    | 20                                               | 2.1                | 43                 |
| FQPF2NA90                | 900                           | Single  | 5.8                                             | —    | —    | —    | 15                                               | 1.7                | 39                 |
| FQPF2N90                 | 900                           | Single  | 7.2                                             | —    | —    | —    | 12                                               | 1.4                | 35                 |
| <b>TO-220F P-Channel</b> |                               |         |                                                 |      |      |      |                                                  |                    |                    |
| FQPF3P50                 | -500                          | Single  | 4.9                                             | —    | —    | —    | 18                                               | 1.9                | 39                 |
| FQPF1P50                 | -500                          | Single  | 10.5                                            | —    | —    | —    | 11                                               | 1                  | 28                 |
| FQPF4P40                 | -400                          | Single  | 3.1                                             | —    | —    | —    | 18                                               | 2.4                | 39                 |
| FQPF2P40                 | -400                          | Single  | 6.5                                             | —    | —    | —    | 10                                               | 1.3                | 28                 |
| FQPF9P25                 | -250                          | Single  | 0.62                                            | —    | —    | —    | 29                                               | 6                  | 50                 |
| SFS9644                  | -250                          | Single  | 0.8                                             | —    | —    | —    | 45                                               | 4.9                | 40                 |
| FQPF6P25                 | -250                          | Single  | 1.1                                             | —    | —    | —    | 21                                               | 4.2                | 45                 |
| SFS9634                  | -250                          | Single  | 1.3                                             | —    | —    | —    | 29                                               | 3.4                | 33                 |
| FQPF4P25                 | -250                          | Single  | 2.1                                             | —    | —    | —    | 10                                               | 2.8                | 38                 |
| SFS9624                  | -250                          | Single  | 2.4                                             | —    | —    | —    | 16                                               | 2.4                | 28                 |

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| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|--------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                  |                    |                    |
| FQPF2P25    | -250                          | Single  | 4                                               | —    | —    | —    | 6.5                                              | 1.8                | 32                 |
| SFS9614     | -250                          | Single  | 4                                               | —    | —    | —    | 9                                                | 1.3                | 13                 |
| FQPF12P20   | -200                          | Single  | 0.47                                            | —    | —    | —    | 31                                               | 7.3                | 50                 |
| SFS9640     | -200                          | Single  | 0.5                                             | —    | —    | —    | 46                                               | 6.2                | 40                 |
| FQPF7P20    | -200                          | Single  | 0.69                                            | —    | —    | —    | 19                                               | 5.2                | 45                 |
| SFS9630     | -200                          | Single  | 0.8                                             | —    | —    | —    | 29                                               | 4.4                | 33                 |
| FQPF5P20    | -200                          | Single  | 1.4                                             | —    | —    | —    | 10                                               | 3.4                | 38                 |
| SFS9620     | -200                          | Single  | 1.5                                             | —    | —    | —    | 15                                               | 3                  | 28                 |
| FQPF3P20    | -200                          | Single  | 2.7                                             | —    | —    | —    | 6                                                | 2.2                | 32                 |
| SFS9610     | -200                          | Single  | 3                                               | —    | —    | —    | 9                                                | 1.4                | 13                 |
| FQPF22P10   | -100                          | Single  | 0.125                                           | —    | —    | —    | 40                                               | 13.2               | 45                 |
| FQPF17P10   | -100                          | Single  | 0.19                                            | —    | —    | —    | 30                                               | 10.5               | 41                 |
| SFS9540     | -100                          | Single  | 0.2                                             | —    | —    | —    | 43                                               | 10.7               | 53                 |
| FQPF12P10   | -100                          | Single  | 0.29                                            | —    | —    | —    | 21                                               | 8.2                | 38                 |
| SFS9530     | -100                          | Single  | 0.3                                             | —    | —    | —    | 30                                               | 8                  | 39                 |
| FQPF8P10    | -100                          | Single  | 0.53                                            | —    | —    | —    | 12                                               | 5.3                | 28                 |
| SFS9520     | -100                          | Single  | 0.6                                             | —    | —    | —    | 16                                               | 4.6                | 29                 |
| FQPF5P10    | -100                          | Single  | 1.05                                            | —    | —    | —    | 6.3                                              | 2.9                | 23                 |
| SFS9510     | -100                          | Single  | 1.2                                             | —    | —    | —    | 9                                                | 2.5                | 16                 |
| FQPF47P06   | -60                           | Single  | 0.026                                           | —    | —    | —    | 84                                               | 30                 | 62                 |
| FQPF27P06   | -60                           | Single  | 0.07                                            | —    | —    | —    | 33                                               | 17                 | 47                 |
| FQPF17P06   | -60                           | Single  | 0.12                                            | —    | —    | —    | 21                                               | 12                 | 39                 |
| SFS9734     | -60                           | Single  | 0.14                                            | —    | —    | —    | 30                                               | 12                 | 36                 |
| FQPF11P06   | -60                           | Single  | 0.175                                           | —    | —    | —    | 13                                               | 8.6                | 30                 |
| SFS9724     | -60                           | Single  | 0.28                                            | —    | —    | —    | 15                                               | 7.5                | 29                 |
| SFS2955     | -60                           | Single  | 0.3                                             | —    | —    | —    | 15                                               | 7.3                | 29                 |
| FQPF7P06    | -60                           | Single  | 0.41                                            | —    | —    | —    | 6.3                                              | 5.3                | 24                 |
| SFS9714     | -60                           | Single  | 0.5                                             | —    | —    | —    | 9                                                | 5.3                | 24                 |

**TO-247/TO-3P/TO-3PF**

| Part Number             | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|--------------------------------------------------|--------------------|--------------------|
|                         |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                  |                    |                    |
| <b>TO-247 N-Channel</b> |                               |         |                                                 |      |      |      |                                                  |                    |                    |
| HUF75345G3              | 55                            | Single  | 0.007                                           | –    | –    | –    | 125                                              | 75                 | 325                |
| HUFA75345G3             | 55                            | Single  | 0.007                                           | –    | –    | –    | 125                                              | 75                 | 325                |
| HUF75344G3              | 55                            | Single  | 0.008                                           | –    | –    | –    | 90                                               | 75                 | 285                |
| HUFA75344G3             | 55                            | Single  | 0.008                                           | –    | –    | –    | 90                                               | 75                 | 285                |
| HUF75343G3              | 55                            | Single  | 0.009                                           | –    | –    | –    | 92                                               | 75                 | 270                |
| HUFA75343G3             | 55                            | Single  | 0.009                                           | –    | –    | –    | 92                                               | 75                 | 270                |
| HUF75339G3              | 55                            | Single  | 0.012                                           | –    | –    | –    | 60                                               | 75                 | 200                |
| HUFA75339G3             | 55                            | Single  | 0.012                                           | –    | –    | –    | 60                                               | 75                 | 200                |
| HUFA75337G3             | 55                            | Single  | 0.014                                           | –    | –    | –    | 51                                               | 75                 | 175                |
| HUFA75333G3             | 55                            | Single  | 0.016                                           | –    | –    | –    | 40                                               | 66                 | 145                |
| HUFA75332G3             | 55                            | Single  | 0.019                                           | –    | –    | –    | 40                                               | 60                 | 145                |
| HUFA75329G3             | 55                            | Single  | 0.024                                           | –    | –    | –    | 35                                               | 49                 | 128                |
| FDH038AN08A1            | 75                            | Single  | 0.0038                                          | –    | –    | –    | 125                                              | 80                 | 450                |
| HUF75652G3              | 100                           | Single  | 0.008                                           | –    | –    | –    | 211                                              | 75                 | 515                |
| HUFA75652G3             | 100                           | Single  | 0.008                                           | –    | –    | –    | 211                                              | 75                 | 515                |
| HUF75639G3              | 100                           | Single  | 0.025                                           | –    | –    | –    | 57                                               | 56                 | 200                |
| HUFA75639G3             | 100                           | Single  | 0.025                                           | –    | –    | –    | 57                                               | 56                 | 200                |
| IRFP150N                | 100                           | Single  | 0.03                                            | –    | –    | –    | 90                                               | 44                 | 155                |
| IRFP140N                | 100                           | Single  | 0.04                                            | –    | –    | –    | 35                                               | 33                 | 120                |
| HUF75852G3              | 150                           | Single  | 0.016                                           | –    | –    | –    | 215                                              | 75                 | 500                |
| HUFA75852G3             | 150                           | Single  | 0.016                                           | –    | –    | –    | 215                                              | 75                 | 500                |
| HUF75945G3              | 200                           | Single  | 0.071                                           | –    | –    | –    | 118                                              | 38                 | 310                |
| FDH34N40                | 400                           | Single  | 0.115                                           | –    | –    | –    | 57                                               | 34                 | 469                |
| FDH44N50                | 500                           | Single  | 0.12                                            | –    | –    | –    | 90                                               | 44                 | 625                |
| FDH40N50F               | 500                           | Single  | 0.13                                            | –    | –    | –    | 85                                               | 42                 | 625                |
| FDH27N50                | 500                           | Single  | 0.19                                            | –    | –    | –    | 56                                               | 27                 | 450                |
| FDH15N50                | 500                           | Single  | 0.38                                            | –    | –    | –    | 33                                               | 15                 | 250                |
| <b>TO-3P N-Channel</b>  |                               |         |                                                 |      |      |      |                                                  |                    |                    |
| FQA170N06               | 60                            | Single  | 0.0056                                          | –    | –    | –    | 220                                              | 170                | 375                |
| FQA85N06                | 60                            | Single  | 0.01                                            | –    | –    | –    | 86                                               | 100                | 214                |
| FQA65N06                | 60                            | Single  | 0.016                                           | –    | –    | –    | 48                                               | 72                 | 183                |



**TO-247/TO-3P/TO-3PF (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |          |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|--------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                  |                    |                    |
| FQA160N08   | 80                            | Single  | 0.007                                           | —        | —    | —    | 220                                              | 160                | 375                |
| FQA90N08    | 80                            | Single  | 0.016                                           | —        | —    | —    | 84                                               | 90                 | 214                |
| FQA70N08    | 80                            | Single  | 0.017                                           | —        | —    | —    | 75                                               | 77                 | 190                |
| FQA58N08    | 80                            | Single  | 0.024                                           | —        | —    | —    | 50                                               | 64                 | 180                |
| FQA44N08    | 80                            | Single  | 0.034                                           | —        | —    | —    | 38                                               | 49.8               | 163                |
| FQA140N10   | 100                           | Single  | 0.01                                            | —        | —    | —    | 220                                              | 140                | 375                |
| SSH70N10A   | 100                           | Single  | 0.023                                           | —        | —    | —    | 151                                              | 70                 | 300                |
| FQA70N10    | 100                           | Single  | 0.025                                           | —        | —    | —    | 85                                               | 70                 | 214                |
| FQA55N10    | 100                           | Single  | 0.026                                           | —        | —    | —    | 75                                               | 61                 | 190                |
| FQA44N10    | 100                           | Single  | 0.039                                           | —        | —    | —    | 48                                               | 48                 | 180                |
| IRFP150A    | 100                           | Single  | 0.04                                            | —        | —    | —    | 75                                               | 43                 | 193                |
| FQA33N10    | 100                           | Single  | 0.052                                           | —        | —    | —    | 38                                               | 36                 | 163                |
| IRFP140A    | 100                           | Single  | 0.052                                           | —        | —    | —    | 60                                               | 31                 | 131                |
| FQA33N10L   | 100                           | Single  | 0.052                                           | 0.055@5V | —    | —    | 30                                               | 36                 | 163                |
| FQA90N15    | 150                           | Single  | 0.018                                           | —        | —    | —    | 220                                              | 90                 | 375                |
| FQA70N15    | 150                           | Single  | 0.028                                           | —        | —    | —    | 135                                              | 70                 | 330                |
| FQA46N15    | 150                           | Single  | 0.042                                           | —        | —    | —    | 85                                               | 50                 | 250                |
| SFH154      | 150                           | Single  | 0.075                                           | —        | —    | —    | 90                                               | 34                 | 204                |
| FQA28N15    | 150                           | Single  | 0.09                                            | —        | —    | —    | 40                                               | 33                 | 227                |
| FQA65N20    | 200                           | Single  | 0.032                                           | —        | —    | —    | 170                                              | 65                 | 310                |
| FQA48N20    | 200                           | Single  | 0.05                                            | —        | —    | —    | 100                                              | 48                 | 280                |
| SSH45N20B   | 200                           | Single  | 0.065                                           | —        | —    | —    | 133                                              | 45                 | 278                |
| FQA34N20    | 200                           | Single  | 0.075                                           | —        | —    | —    | 60                                               | 34                 | 210                |
| FQA34N20L   | 200                           | Single  | 0.075                                           | 0.08@5V  | —    | —    | 55                                               | 34                 | 210                |
| IRFP250B    | 200                           | Single  | 0.085                                           | —        | —    | —    | 95                                               | 32                 | 204                |
| FQA19N20L   | 200                           | Single  | 0.14                                            | 0.15@5V  | —    | —    | 27                                               | 25                 | 190                |
| FQA19N20    | 200                           | Single  | 0.15                                            | —        | —    | —    | 31                                               | 23                 | 190                |
| IRFP240B    | 200                           | Single  | 0.18                                            | —        | —    | —    | 45                                               | 20                 | 180                |
| FQA55N25    | 250                           | Single  | 0.04                                            | —        | —    | —    | 140                                              | 55                 | 310                |
| FQA40N25    | 250                           | Single  | 0.07                                            | —        | —    | —    | 85                                               | 40                 | 280                |
| FQA34N25    | 250                           | Single  | 0.085                                           | —        | —    | —    | 60                                               | 34                 | 245                |
| FQA27N25    | 250                           | Single  | 0.11                                            | —        | —    | —    | 50                                               | 27                 | 210                |

**TO-247/TO-3P/TO-3PF (Continued)**

| Part Number | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------|-------------------------------|---------|-------------------------------------------------|------|------|------|--------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                                  |                    |                    |
| IRFP254B    | 250                           | Single  | 0.14                                            | —    | —    | —    | 95                                               | 25                 | 221                |
| FQA16N25    | 250                           | Single  | 0.23                                            | —    | —    | —    | 27                                               | 18.5               | 190                |
| IRFP244B    | 250                           | Single  | 0.28                                            | —    | —    | —    | 47                                               | 16                 | 180                |
| FQA44N30    | 300                           | Single  | 0.069                                           | —    | —    | —    | 120                                              | 43.5               | 310                |
| FQA38N30    | 300                           | Single  | 0.085                                           | —    | —    | —    | 90                                               | 38.4               | 290                |
| FQA22N30    | 300                           | Single  | 0.16                                            | —    | —    | —    | 47                                               | 22                 | 190                |
| FQA14N30    | 300                           | Single  | 0.29                                            | —    | —    | —    | 30                                               | 15                 | 160                |
| FQA35N40    | 400                           | Single  | 0.105                                           | —    | —    | —    | 110                                              | 35                 | 310                |
| FQA30N40    | 400                           | Single  | 0.14                                            | —    | —    | —    | 90                                               | 30                 | 290                |
| FQA20N40    | 400                           | Single  | 0.22                                            | —    | —    | —    | 60                                               | 19.5               | 200                |
| FQA17N40    | 400                           | Single  | 0.27                                            | —    | —    | —    | 45                                               | 17.2               | 190                |
| IRFP350A    | 400                           | Single  | 0.3                                             | —    | —    | —    | 101                                              | 17                 | 202                |
| FQA11N40    | 400                           | Single  | 0.48                                            | —    | —    | —    | 27                                               | 11.8               | 160                |
| IRFP340B    | 400                           | Single  | 0.54                                            | —    | —    | —    | 41                                               | 11                 | 162                |
| FQA28N50    | 500                           | Single  | 0.16                                            | —    | —    | —    | 110                                              | 28.4               | 310                |
| FQA28N50F   | 500                           | Single  | 0.16                                            | —    | —    | —    | 110                                              | 28.4               | 310                |
| FQA24N50    | 500                           | Single  | 0.2                                             | —    | —    | —    | 90                                               | 24                 | 290                |
| FQA24N50F   | 500                           | Single  | 0.2                                             | —    | —    | —    | 90                                               | 24                 | 290                |
| IRFP460C    | 500                           | Single  | 0.24                                            | —    | —    | —    | 87                                               | 14                 | 205                |
| SSH22N50A   | 500                           | Single  | 0.25                                            | —    | —    | —    | 182                                              | 22                 | 278                |
| FQA18N50V2  | 500                           | Single  | 0.265                                           | —    | —    | —    | 42                                               | 20                 | 227                |
| FQA16N50    | 500                           | Single  | 0.32                                            | —    | —    | —    | 17                                               | 16                 | 200                |
| IRFP450B    | 500                           | Single  | 0.4                                             | —    | —    | —    | 87                                               | 14                 | 205                |
| FQA13N50    | 500                           | Single  | 0.43                                            | —    | —    | —    | 45                                               | 13.4               | 190                |
| FQA9N50     | 500                           | Single  | 0.73                                            | —    | —    | —    | 28                                               | 9.6                | 160                |
| IRFP440B    | 500                           | Single  | 0.85                                            | —    | —    | —    | 41                                               | 8.5                | 162                |
| FQA24N60    | 600                           | Single  | 0.24                                            | —    | —    | —    | 110                                              | 23.5               | 310                |
| FQA19N60    | 600                           | Single  | 0.38                                            | —    | —    | —    | 70                                               | 18.5               | 300                |
| FQA12N60    | 600                           | Single  | 0.7                                             | —    | —    | —    | 42                                               | 12                 | 240                |
| SSH10N60B   | 600                           | Single  | 0.8                                             | —    | —    | —    | 54                                               | 10                 | 193                |
| FQA7N60     | 600                           | Single  | 1                                               | —    | —    | —    | 29                                               | 7.7                | 152                |
| SSH7N60B    | 600                           | Single  | 1.2                                             | —    | —    | —    | 38                                               | 7.3                | 160                |

**TO-247/TO-3P/TO-3PF (Continued)**

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|-------------------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|--------------------------------------------------|--------------------|--------------------|
|                         |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                  |                    |                    |
| FQA6N70                 | 700                           | Single  | 1.5                                             | —       | —    | —    | 30                                               | 6.4                | 152                |
| FQA13N80                | 800                           | Single  | 0.75                                            | —       | —    | —    | 68                                               | 12.6               | 300                |
| FQA10N80C               | 800                           | Single  | 1.1                                             | —       | —    | —    | 44                                               | 10                 | 240                |
| FQA8N80C                | 800                           | Single  | 1.55                                            | —       | —    | —    | 35                                               | 8.4                | 220                |
| FQA7N80C                | 800                           | Single  | 1.9                                             | —       | —    | —    | 27                                               | 7                  | 198                |
| FQA6N80                 | 800                           | Single  | 1.95                                            | —       | —    | —    | 31                                               | 6.3                | 185                |
| FQA11N90                | 900                           | Single  | 0.96                                            | —       | —    | —    | 72                                               | 11.4               | 300                |
| FQA11N90C               | 900                           | Single  | 1.1                                             | —       | —    | —    | 60                                               | 11                 | 300                |
| FQA8N90C                | 900                           | Single  | 1.1                                             | —       | —    | —    | 35                                               | 8                  | 240                |
| FQA9N90C                | 900                           | Single  | 1.4                                             | —       | —    | —    | 45                                               | 9                  | 280                |
| FQA5N90                 | 900                           | Single  | 2.3                                             | —       | —    | —    | 31                                               | 5.8                | 185                |
| FQA6N90C                | 900                           | Single  | 2.3                                             | —       | —    | —    | 30                                               | 6                  | 198                |
| <b>TO-3P P-Channel</b>  |                               |         |                                                 |         |      |      |                                                  |                    |                    |
| FQA9P25                 | -250                          | Single  | 0.62                                            | —       | —    | —    | 29                                               | 10.5               | 150                |
| SFH9244                 | -250                          | Single  | 0.8                                             | —       | —    | —    | 45                                               | 8.7                | 126                |
| SFH9250L                | -200                          | Single  | —                                               | 0.23@5V | —    | —    | 90                                               | 19.5               | 204                |
| FQA12P20                | -200                          | Single  | 0.47                                            | —       | —    | —    | 31                                               | 12.6               | 150                |
| SFH9240                 | -200                          | Single  | 0.5                                             | —       | —    | —    | 46                                               | 11                 | 126                |
| SFH9154                 | -150                          | Single  | 0.2                                             | —       | —    | —    | 100                                              | 18                 | 204                |
| FQA22P10                | -100                          | Single  | 0.125                                           | —       | —    | —    | 40                                               | 24                 | 150                |
| FQA17P10                | -100                          | Single  | 0.19                                            | —       | —    | —    | 30                                               | 18                 | 120                |
| SFH9140                 | -100                          | Single  | 0.2                                             | —       | —    | —    | 43                                               | 19                 | 166                |
| FQA47P06                | -60                           | Single  | 0.026                                           | —       | —    | —    | 84                                               | 55                 | 214                |
| <b>TO-3PF N-Channel</b> |                               |         |                                                 |         |      |      |                                                  |                    |                    |
| FQAF85N06               | 60                            | Single  | 0.01                                            | —       | —    | —    | 86                                               | 67                 | 100                |
| FQAF65N06               | 60                            | Single  | 0.016                                           | —       | —    | —    | 48                                               | 49                 | 86                 |
| FQAF90N08               | 80                            | Single  | 0.016                                           | —       | —    | —    | 84                                               | 56                 | 100                |
| FQAF70N08               | 80                            | Single  | 0.017                                           | —       | —    | —    | 75                                               | 53                 | 90                 |
| FQAF58N08               | 80                            | Single  | 0.024                                           | —       | —    | —    | 50                                               | 44                 | 85                 |
| FQAF44N08               | 80                            | Single  | 0.034                                           | —       | —    | —    | 38                                               | 35.6               | 83                 |
| FQAF70N10               | 100                           | Single  | 0.025                                           | —       | —    | —    | 85                                               | 45                 | 100                |
| FQAF44N10               | 100                           | Single  | 0.039                                           | —       | —    | —    | 48                                               | 33                 | 85                 |

**TO-247/TO-3P/TO-3PF (Continued)**

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|-------------|-------------------------------|---------|-------------------------------------------------|----------|------|------|--------------------------------------------------|--------------------|--------------------|
|             |                               |         | 10V                                             | 4.5V     | 2.5V | 1.8V |                                                  |                    |                    |
| IRFS150A    | 100                           | Single  | 0.04                                            | —        | —    | —    | 75                                               | 31                 | 100                |
| FQAF33N10   | 100                           | Single  | 0.052                                           | —        | —    | —    | 38                                               | 25.8               | 83                 |
| IRFS140A    | 100                           | Single  | 0.052                                           | —        | —    | —    | 60                                               | 23                 | 72                 |
| FQAF33N10L  | 100                           | Single  | 0.052                                           | 0.055@5V | —    | —    | 30                                               | 25.8               | 83                 |
| FQAF70N15   | 150                           | Single  | 0.028                                           | —        | —    | —    | 135                                              | 44                 | 130                |
| FQAF28N15   | 150                           | Single  | 0.09                                            | —        | —    | —    | 40                                               | 22                 | 102                |
| SSF45N20B   | 200                           | Single  | 0.065                                           | —        | —    | —    | 133                                              | 26.4               | 100                |
| FQAF34N20   | 200                           | Single  | 0.075                                           | —        | —    | —    | 60                                               | 23                 | 95                 |
| FQAF34N20L  | 200                           | Single  | 0.075                                           | 0.08@5V  | —    | —    | 55                                               | 23                 | 95                 |
| IRFS250B    | 200                           | Single  | 0.085                                           | —        | —    | —    | 95                                               | 21.3               | 90                 |
| FQAF19N20L  | 200                           | Single  | 0.14                                            | 0.15@5V  | —    | —    | 27                                               | 16                 | 85                 |
| FQAF19N20   | 200                           | Single  | 0.15                                            | —        | —    | —    | 31                                               | 15                 | 85                 |
| IRFS240B    | 200                           | Single  | 0.18                                            | —        | —    | —    | 45                                               | 12.8               | 73                 |
| FQAF40N25   | 250                           | Single  | 0.07                                            | —        | —    | —    | 85                                               | 24                 | 108                |
| FQAF34N25   | 250                           | Single  | 0.085                                           | —        | —    | —    | 60                                               | 21.7               | 100                |
| IRFS254B    | 250                           | Single  | 0.14                                            | —        | —    | —    | 95                                               | 16                 | 90                 |
| FQAF16N25   | 250                           | Single  | 0.23                                            | —        | —    | —    | 27                                               | 12.4               | 85                 |
| IRFS244B    | 250                           | Single  | 0.28                                            | —        | —    | —    | 47                                               | 10.2               | 73                 |
| FQAF14N30   | 300                           | Single  | 0.29                                            | —        | —    | —    | 30                                               | 11.4               | 90                 |
| SSF25N40A   | 400                           | Single  | 0.2                                             | —        | —    | —    | 140                                              | 14.3               | 100                |
| FQAF17N40   | 400                           | Single  | 0.27                                            | —        | —    | —    | 45                                               | 12.2               | 100                |
| IRFS350A    | 400                           | Single  | 0.3                                             | —        | —    | —    | 101                                              | 11.5               | 92                 |
| FQAF11N40   | 400                           | Single  | 0.48                                            | —        | —    | —    | 27                                               | 8.8                | 90                 |
| IRFS340B    | 400                           | Single  | 0.54                                            | —        | —    | —    | 41                                               | 8                  | 85                 |
| FQAF16N50   | 500                           | Single  | 0.32                                            | —        | —    | —    | 17                                               | 11.3               | 110                |
| IRFS450B    | 500                           | Single  | 0.4                                             | —        | —    | —    | 87                                               | 9.6                | 96                 |
| FQAF13N50   | 500                           | Single  | 0.43                                            | —        | —    | —    | 45                                               | 9.6                | 100                |
| FQAF9N50    | 500                           | Single  | 0.73                                            | —        | —    | —    | 28                                               | 7.2                | 90                 |
| IRFS440B    | 500                           | Single  | 0.85                                            | —        | —    | —    | 41                                               | 6.2                | 85                 |
| FQAF19N60   | 600                           | Single  | 0.38                                            | —        | —    | —    | 70                                               | 11.2               | 120                |
| SSF17N60A   | 600                           | Single  | 0.45                                            | —        | —    | —    | 128                                              | 9                  | 100                |
| FQAF12N60   | 600                           | Single  | 0.7                                             | —        | —    | —    | 42                                               | 7.8                | 100                |

**TO-247/TO-3P/TO-3PF (Continued)**

| Part Number             | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |         |      |      | Q <sub>g</sub> Typ. (nC)<br>@V <sub>GS</sub> =5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------------------|-------------------------------|---------|-------------------------------------------------|---------|------|------|--------------------------------------------------|--------------------|--------------------|
|                         |                               |         | 10V                                             | 4.5V    | 2.5V | 1.8V |                                                  |                    |                    |
| SSF10N60B               | 600                           | Single  | 0.8                                             | —       | —    | —    | 54                                               | 6.9                | 90                 |
| SSF7N60B                | 600                           | Single  | 1.2                                             | —       | —    | —    | 38                                               | 5.4                | 86                 |
| FQAF15N70               | 700                           | Single  | 0.56                                            | —       | —    | —    | 70                                               | 9.5                | 120                |
| FQAF6N70                | 700                           | Single  | 1.5                                             | —       | —    | —    | 30                                               | 4.7                | 83                 |
| FQAF13N80               | 800                           | Single  | 0.75                                            | —       | —    | —    | 68                                               | 8                  | 120                |
| FQAF8N80                | 800                           | Single  | 1.2                                             | —       | —    | —    | 44                                               | 5.9                | 107                |
| FQAF6N80                | 800                           | Single  | 1.95                                            | —       | —    | —    | 31                                               | 4.4                | 90                 |
| FQAF11N90               | 900                           | Single  | 0.96                                            | —       | —    | —    | 72                                               | 7.2                | 120                |
| FQAF5N90                | 900                           | Single  | 2.3                                             | —       | —    | —    | 31                                               | 4.1                | 90                 |
| <b>TO-3PF P-Channel</b> |                               |         |                                                 |         |      |      |                                                  |                    |                    |
| FQAF9P25                | -250                          | Single  | 0.62                                            | —       | —    | —    | 29                                               | 7.1                | 70                 |
| SFF9244                 | -250                          | Single  | 0.8                                             | —       | —    | —    | 45                                               | 6                  | 60                 |
| SFF9250L                | -200                          | Single  | —                                               | 0.23@5V | —    | —    | 90                                               | 12.6               | 90                 |
| FQAF12P20               | -200                          | Single  | 0.47                                            | —       | —    | —    | 31                                               | 11.5               | 70                 |
| SFF9240                 | -200                          | Single  | 0.5                                             | —       | —    | —    | 46                                               | 7.6                | 60                 |
| FQAF22P10               | -100                          | Single  | 0.125                                           | —       | —    | —    | 40                                               | 16.6               | 70                 |
| FQAF17P10               | -100                          | Single  | 0.19                                            | —       | —    | —    | 30                                               | 12.4               | 56                 |
| SFF9140                 | -100                          | Single  | 0.2                                             | —       | —    | —    | 43                                               | 13                 | 80                 |
| FQAF47P06               | -60                           | Single  | 0.026                                           | —       | —    | —    | 84                                               | 38                 | 100                |

**TO-264**

| Part Number             | BV <sub>DSS</sub><br>Min. (V) | Config. | R <sub>DS(ON)</sub> Max (Ω) @ V <sub>GS</sub> = |      |      |      | Qg Typ. (nC)<br>@V <sub>GS</sub> = 5V | I <sub>D</sub> (A) | P <sub>D</sub> (W) |
|-------------------------|-------------------------------|---------|-------------------------------------------------|------|------|------|---------------------------------------|--------------------|--------------------|
|                         |                               |         | 10V                                             | 4.5V | 2.5V | 1.8V |                                       |                    |                    |
| <b>TO-264 N-Channel</b> |                               |         |                                                 |      |      |      |                                       |                    |                    |
| FQL50N40                | 400                           | Single  | 0.075                                           | –    | –    | –    | 160                                   | 50                 | 460                |
| FQL40N50                | 500                           | Single  | 0.11                                            | –    | –    | –    | 155                                   | 40                 | 460                |
| FQL40N50F               | 500                           | Single  | 0.11                                            | –    | –    | –    | 155                                   | 40                 | 460                |