

Fairchild Semiconductor Product Catalog 2004

Analog & Mixed Signal

Discrete Power

Interface & Logic

Microcontrollers

Optoelectronics

PDF.Support

Analog Discrete Interface & Logic Optoelectronics

Across the board. Around the world.™



Fairchild Semiconductor, The Power Franchise™

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Company Information

Fairchild Semiconductor is a global company dedicated to designing, manufacturing and marketing high performance semiconductors critical to multiple end markets. With a focus on developing leading-edge power and interface solutions that optimize the system power of the electronics of today and tomorrow, Fairchild's components are used in consumer, communications, computer, industrial and automotive applications.

Fairchild Semiconductor is The Power Franchise™, offering the broadest portfolio of components critical to optimizing system power. From the wall to the board, Fairchild's products provide solutions to the most pivotal design challenges facing the electronics industry today. The fastest growing opportunities can be found providing solutions that minimize, convert, distribute and manage power in electronics applications across multiple end markets. Fairchild is the only semiconductor company focused on these four pillars of power – and is the global leader in providing power building block components. As the world's attention crystallizes on power – whether from an environmental or performance viewpoint Fairchild is positioned ahead of the crowd.

Analog & Mixed Signal products include Power Management, Analog Signal Processing and Data Conversion ICs. Fairchild is driving continued innovation and portfolio expansion in product areas ranging from Off-Line Switchers, DC/DC converters, PFC controllers, Battery Management, Data Converters (A/D and D/A) and Video filters & drivers to LDOs, System management & Supervision, Temp Sensing, Motor ICs and Amplifiers. Fairchild also offers Microcontrollers and Application Specific Standard Products (ASSP).

Fairchild's **Discrete Power** portfolio is one of the industry's broadest, and includes leading edge UltraFET®, PowerTrench® and QFET® MOSFETs, Bipolar Transistors, IGBTs, Ultra-Fast/Ultra-Soft (Stealth™) Rectifiers, Smart Power Modules (SPM™) and RF Power products. Fairchild's extensive discrete packaging includes advanced small package solutions with the advantages of superior size, low package height, and excellent thermal and electrical performance.

Interface & Logic products include PHYs, LVDS, GTLP, differential crosspoint switches, Universal Serial Bus, DIMM and 1284 standard products. Interface & Logic is also comprised of TinyLogic® products, low voltage products, analog switches, bus switches and standard logic products. Fairchild's packaging solutions range from space saving MicroPak™ and DQFN packaging, to high pin count QVSOP and BGA packaging.

Optoelectronic products include optocouplers, Solid State Relays, LED lamps and displays, and infrared components. Our portfolio of industry standard and application specific devices features a variety of advanced solutions including a full-color spectrum of low power and high brightness SMD LEDs, infrared variable sensing, mini-flat packages, surface-mount LEDs and infrared, Solid State Relays and isolated error amplifiers. A complete set of safety approval certifications are available for optocoupler products.

Fairchild employs 10,000 people worldwide and is headquartered in South Portland, Maine. Additional US design and manufacturing facilities are located in California, Pennsylvania, Colorado and Utah with manufacturing, assembly and test sites in Malaysia, Singapore, the Philippines, China and South Korea.

The Power Franchise™

| Power | | | | |
|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------|---|
| AC/DC Conversion | Battery Management | DC/DC Conversion | Monitoring/Supervisory | Other Power Applications |
| Battery Charger Support | Microcontrollers | DC Boost Converters | Microcontrollers | Ballast Controllers |
| Diodes | Battery Chargers | DC/DC Conversion ICs | Supervisory Circuits | Ground Fault Interrupt |
| Fairchild Power Switches | Diodes | Diodes | Temperature Sensors | IGBTs |
| IGBTs | MOSFETs | Linear Regulators | Voltage Detectors | MOSFETs |
| MOSFETs | Optically Isolated Error Amplifiers | MOSFETs | | Motor Drivers/Controllers |
| Optically Isolated Error Amplifiers | Optocouplers | Optically Isolated Error Amplifiers | | Multiplexer/Register for Microprocessor VID |
| Optocouplers | Rectifiers | Optocouplers | | Solid State Relays |
| PFC/PWM Combinations | Temperature Sensors | Rectifiers | | Supervisory ICs |
| Power Factor Correction | | | | Transistors |
| PWM and Phase Modulation Controllers | | | | Triac Optocouplers |
| Rectifiers | | | | |
| Voltage References | | | | |

| Input | |
|------------------------------------|---------------------------------|
| Analog Input and Processing | |
| ADCs | Timers |
| Amplifiers | Video Processors |
| Analog Switches | Voltage References |
| Comparators | Voltage to Frequency Converters |
| Multipliers | |
| Optocouplers | |
| Interface | |
| 1284 Transceivers | LVDS |
| Advanced Logic | Memory Module Drivers |
| Bus Switches | Optocouplers |
| GTL | USB Transceivers |
| Low Voltage Logic | |
| Optical | |
| Infrared Products | Solid State Relays |

| Processors |
|-----------------|
| Microcontroller |

| Logic |
|-------------------|
| Bus Switches |
| Low Voltage Logic |
| Standard Logic |
| TinyLogic® |

| Output | |
|-------------------|-----------------------|
| Analog | |
| Amplifiers | Encoders |
| Analog Switches | Optocouplers |
| Comparators | Power Amplifiers |
| DACs | Video Filters/Drivers |
| Interface | |
| 1284 Transceivers | LVDS |
| Advanced Logic | Memory Module Drivers |
| Bus Switches | Optocouplers |
| GTL | USB Transceivers |
| Low Voltage Logic | |
| Optical | |
| Infrared Products | LED Lamps |
| LED Displays | Solid State Relays |
| LED Drivers | |

| Support | | |
|-----------------|---------------------|-------------------------------|
| Discrete | Sensing | Feedback & Control |
| Diodes | Infrared Products | Infrared Products |
| JFETs | Optocouplers | Optocouplers |
| MOSFETs | Temperature Sensors | Solid State Relays |
| Rectifiers | | |
| Transistors | | |

Fairchild Semiconductor's Product Tree

Analog & Mixed Signal

Analog Signal Processing

- Amplifiers
- Analog Multipliers
- Comparators
- Power Amplifiers
- Voltage to Frequency Converters

Data Conversion

- Analog to Digital Converters (ADCs)
- Digital to Analog Converters (DACs)

Power Management

- Battery Charger ICs
- LED Drivers
- Linear Regulators
- References
- Supervisory Circuits
- Switching Regulators

Thermal Management

Video ICs

Discrete Power

Bipolar Power Transistors & JFETs

Diodes & Rectifiers

IGBTs

- IGBT Discrete
- IGBT Modules
- Smart Power Modules (SPM™)

MOSFETs

- Load Switches
- Power MOSFETs
- MOSFET/Schottky Combos

Triacs

RF Power

Interface & Logic

Interface

- LVDS
- GTLP
- Interconnect
- DIMM

Logic

- Standard Logic
- Low Voltage Logic
- TinyLogic®

Switches

- Analog Switches
- Bus Switches

Microcontrollers

Optoelectronics

Optocouplers

Solid State Relays

LED Lamps & Displays

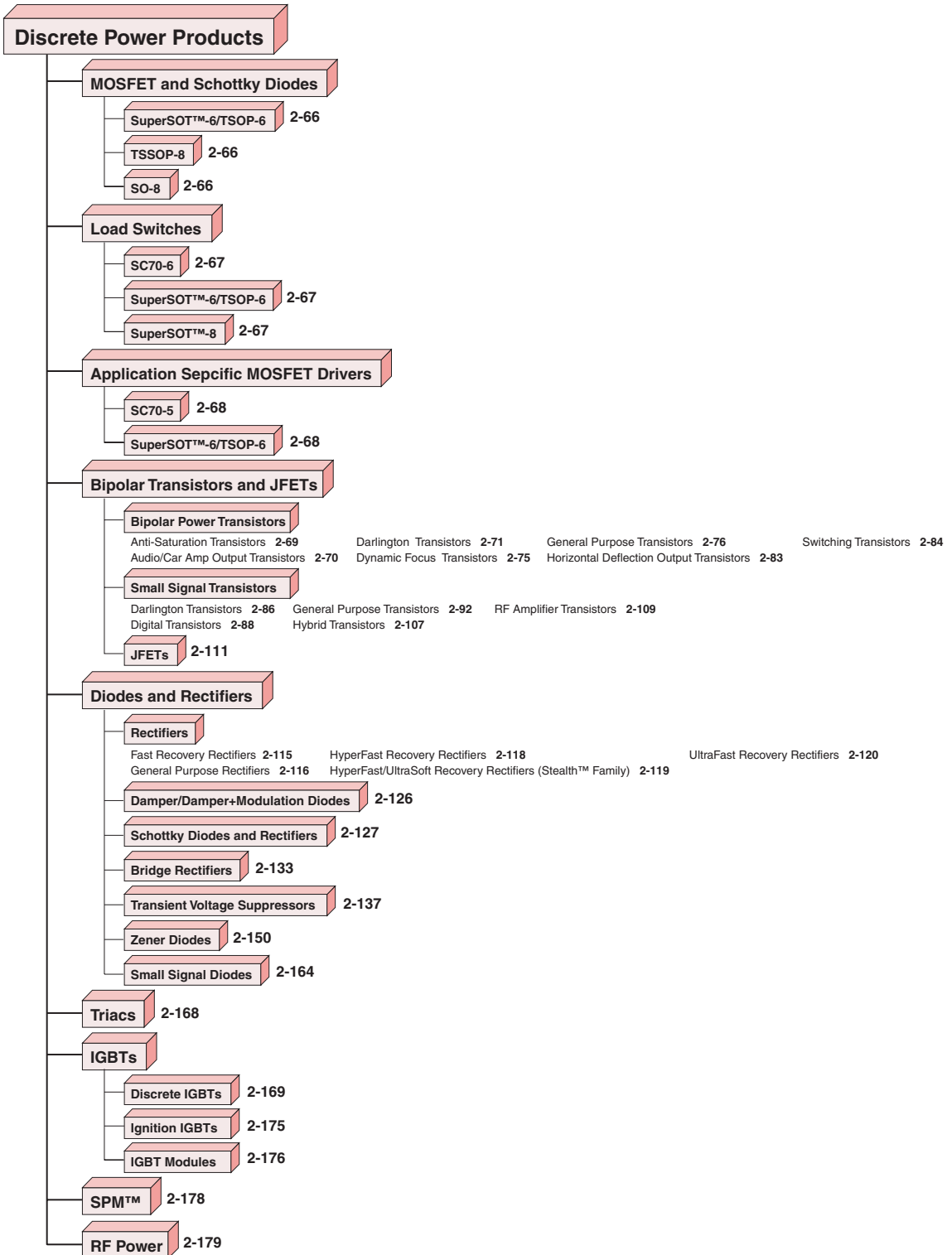
Infrared Products

Discrete Power Products

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BGA

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|----------------------|-------------------------------|-------------------------|---|---------|--------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| BGA N-Channel | | | | | | | | | |
| 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 Common Drain | – | 0.014 | 0.02 | – | 12 | 9.6 | 2.1 |
| FDZ2553NZ | 20 | Monolithic Common Drain | – | 0.014 | 0.02 | – | 13 | 9.6 | 2.1 |
| FDZ2551N | 20 | Monolithic 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 |
| BGA P-Channel | | | | | | | | | |
| 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 Common Drain | – | 0.028 | 0.045 | – | 14 | 6.5 | 2.1 |
| FDZ2554PZ | -20 | Monolithic Common Drain | – | 0.028 | 0.045 | – | 15 | 6.5 | 2.1 |
| FDZ2552P | -20 | Monolithic Common Drain | – | 0.045 | 0.075 | – | 9 | 5.5 | 2.1 |
| 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 |

SC70-6

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) | |
|--|-------------------------------|---------------|---|-------------|----------------------|-------|--|--------------------|--------------------|--|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | | |
| SC70-6 N-Channel | | | | | | | | | | |
| 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 | |
| SC70-6 Complementary N- and P-Channel | | | | | | | | | | |
| FDG6332C | 20 -20 | Complementary | – | 0.3 0.42 | 0.4 0.63 | – | 1.1 | 0.7 0.6 | 0.3 | |
| FDG6321C | 25 -25 | Complementary | – | 0.45 1.1 | 0.6@2.7V 1.5@2.7V | – | 1.64 1.1 | 0.5 0.41 | 0.3 | |
| FDG6320C | 25 -25 | Complementary | – | 4 10 | 5@2.7V 13@2.7V | – | 0.29 0.22 | 0.22 0.14 | 0.3 | |
| FDG6322C | 25 -25 | Complementary | – | 4 1.1 | 5@2.7V 1.5@2.7V | – | 1.1 1.4 | 0.22 0.41 | 0.3 | |
| SC70-6 P-Channel | | | | | | | | | | |
| 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 | |
| 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 | |

SC75-6 FLMP

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|------------------------------|-------------------------------|---------|---|------|------|------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SC75-6 FLMP P-Channel | | | | | | | | | |
| FDJ129P | -20 | Single | – | 0.07 | 0.12 | – | 4 | 4.2 | 1.6 |

SuperSOT™-3/SOT-23

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|------------------------------------|-------------------------------|---------|---|-------|-----------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SOT-23/SuperSOT-3 N-Channel | | | | | | | | | |
| 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 |
| SOT-23/SuperSOT-3 P-Channel | | | | | | | | | |
| 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 |
| 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 |

SuperSOT™-3/SOT-23 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|-------|-----------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |

MicroFET™

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|---------------------------|-------------------------------|-------------------|---|-------|-------|-------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| MicroFET N-Channel | | | | | | | | | |
| FDM3300NZ | 20 | Dual Common Drain | – | 0.023 | 0.028 | – | 12 | 10 | 2.5 |
| MicroFET P-Channel | | | | | | | | | |
| FDM606P | -20 | Single | – | 0.026 | 0.033 | 0.052 | 20 | 6.8 | 1.92 |

SuperSOT™-6/TSOP-6 FLMP

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|---|-------------------------------|---------|---|-------|-------|-------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SuperSOT-6/TSOP-6 FLMP N-Channel | | | | | | | | | |
| FDC796N | 30 | Single | 0.009 | 0.012 | – | – | 14 | 12.5 | 1.8 |
| FDC3616N | 100 | Single | 0.07 | – | – | – | 23 | 3.7 | 1.8 |
| SuperSOT-6/TSOP-6 FLMP P-Channel | | | | | | | | | |
| 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 |

SuperSOT-6/TSOP-6

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|---|-------------------------------|---------------|---|---------------|--------------------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SuperSOT-6/TSOP-6 N-Channel | | | | | | | | | |
| 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 |
| SuperSOT-6/TSOP-6 Complementary N- and P-Channel | | | | | | | | | |
| FDC6420C | 20 -20 | Complementary | – | 0.07 0.125 | 0.095 0.19 | – | 3.3 3.7 | 3 2.2 | 0.96 |
| FDC6327C | 20 -20 | Complementary | – | 0.08 0.17 | 0.12 0.25 | – | 3.25 2.85 | 2.7 1.9 | 0.96 |
| FDC6320C | 25 -25 | Complementary | – | – | 5@2.7V 13@2.7V | – | 0.29 0.23 | 0.22 0.12 | 0.9 |
| FDC6322C | 25 -25 | Complementary | – | – | 5@2.7V 1.5@2.7V | – | 0.49 1 | 0.22 0.46 | 0.9 |
| FDC6321C | 25 -25 | Complementary | – | 0.45 1.1 | – | – | 1.64 1.1 | 0.68 0.46 | 0.9 |
| FDC6432SH | 30 -12 | Complementary | 0.09 | 0.105 | 0.125 | 0.22 | 2.5 5.7 | 2.4 -2.5 | 1.3 |
| FDC6333C | 30 -30 | Complementary | 0.095 0.15 | 0.15 0.22 | – | – | 4.7 4.1 | 2.5 2 | 0.96 |
| NDC7001C | 60 -60 | Complementary | 2 5 | 4 7.5 | – | – | 1.1 1.6 | 0.51 0.34 | 0.96 |
| SuperSOT-6/TSOP-6 P-Channel | | | | | | | | | |
| 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 |

SuperSOT-6/TSOP-6 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|-------|----------|-------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |

TSSOP-8

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|---|-------------------------------|-------------------|---|----------------|----------------|--------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TSSOP-8 N-Channel | | | | | | | | | |
| 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 |
| TSSOP-8 Complementary N- and P-Channel | | | | | | | | | |
| FDW2520C | 20 -20 | Complementary | – | 0.018 0.035 | 0.028 0.057 | – | 14 14 | 6 4.4 | 1 |
| FDW2521C | 20 -20 | Complementary | – | 0.021 0.043 | 0.035 0.07 | – | 12 9.7 | 5.5 3.8 | 1 |
| TSSOP-8 P-Channel | | | | | | | | | |
| 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 |

SuperSOT™-8

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--|-------------------------------|---------------|---|---------------|---------------|-------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SuperSOT-8 N-Channel | | | | | | | | | |
| 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 |
| SuperSOT-8 Complementary N- and P-Channel | | | | | | | | | |
| FDR8702H | 20 -20 | Complementary | – | 0.038 0.08 | 0.054 0.11 | – | 7 6 | 3.6 -2.6 | 0.8 |
| SuperSOT-8 P-Channel | | | | | | | | | |
| 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 |

SO-8 FLMP

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|----------------------------|-------------------------------|---------|---|--------|-------|-------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SO-8 FLMP N-Channel | | | | | | | | | |
| 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 |
| SO-8 FLMP P-Channel | | | | | | | | | |
| FDS7079ZN3 | -30 | Single | 0.0075 | 0.0115 | – | – | 39 | 16 | 3.13 |

SO-8

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-----------------------|-------------------------------|----------------------------|---|-----------------|-----------|-------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SO-8 N-Channel | | | | | | | | | |
| 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 30 | Dual | 0.015 0.028 | 0.02 0.035 | – | – | 18.5 8.5 | 8.6 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 30 | Dual (MOSFET & SyncFET) | 0.016 0.028 | 0.022 0.035 | – | – | 17.5 8.5 | 8.6 6.3 | 2 |
| FDS6984S | 30 30 | Dual (MOSFET & SyncFET) | 0.019 0.04 | 0.028 0.055 | – | – | 11 5 | 8.5 5.5 | 2 |
| FDS6994S | 30 30 | Dual (MOSFET & SyncFET) | 0.021 0.015 | 0.026 0.0175 | – | – | 8 25 | 6.9 8.2 | 2 |
| FDS6986S | 30 30 | Dual (MOSFET & SyncFET) | 0.029 0.02 | 0.038 0.028 | – | – | 6.5 11 | 6.5 7.9 | 2 |
| FDS6900S | 30 30 | Dual (MOSFET & SyncFET) | 0.03 0.022 | 0.037 0.029 | – | – | 8 12 | 6.9 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 |

DISCRETE POWER

SO-8 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|---------------|-------------------------------|---------|---|----------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

SO-8 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--|-------------------------------|---------------|---|----------------|----------------|------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |
| SO-8 Complementary N- and P-Channel | | | | | | | | | |
| FDS8928A | 30 -20 | Complementary | – | 0.03 0.055 | 0.038 0.072 | – | 19.8 20 | 5.5 4 | 2 |
| NDH8321C | 30 | Complementary | Replaced by FDS8928A | | | | | | |
| FDS4501H | 30 -20 | Complementary | 0.018 | 0.046 0.023 | 0.063 | – | 17 13 | 9.3 5.6 | 2.5 |
| FDS8958A | 30 -30 | Complementary | 0.028 0.052 | 0.04 0.08 | – | – | 18 19 | 7 5 | 2 |

SO-8 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) | |
|-----------------------|-------------------------------|---------------|---|------------------|-------|------|---|--------------------|--------------------|--|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | | |
| NDH8521C | 30 | Complementary | Replaced by FDS8958A | | | | | | | |
| SI4532DY | 30 -30 | Complementary | 0.065 0.085 | 0.095 0.19 | – | – | 3.7 5 | 3.9 3.5 | 2 | |
| NDS9952A | 30 -30 | Complementary | 0.08 0.13 | – | – | – | 9.5 10 | 3.7 2.9 | 2 | |
| FDS8333C | 30 -30 | Complementary | 0.08 0.13 | 0.13 0.2 | – | – | 4.7 4.1 | 4.1 3.4 | 2 | |
| NDS9958 | 30 | Complementary | Replaced by FDS8333C | | | | | | | |
| FDS4559 | 60 -60 | Complementary | 0.055 0.105 | 0.075 0.135 | – | – | 12.5 15 | 4.5 3.5 | 2 | |
| FQS4900 | 60 -300 | Complementary | 0.55 15.5 | 0.65@5V 16@5V | – | – | 1.6 3.6 | 1.3 0.3 | 2 | |
| SO-8 P-Channel | | | | | | | | | | |
| 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 -12 | Dual | 0.055 | 0.017 0.085 | 0.024 | 0.03 | – | 4.3 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 | |
| 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 | |

SO-8 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|--------|--------|-------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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-92

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|------------------------|-------------------------------|---------|---|------|------|------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-92 N-Channel | | | | | | | | | |
| 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 |

SOT-223

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------------------|-------------------------------|---------|---|---------|-------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SOT-223 N-Channel | | | | | | | | | |
| NDT453N | 30 | Single | 0.028 | 0.042 | – | – | 28 | 8 | 3 |
| FDT439N | 30 | Single | – | 0.045 | 0.058 | – | 10.7 | 6.3 | 3 |
| NDT451AN | 30 | Single | 0.035 | 0.05 | – | – | 19 | 7.2 | 3 |
| FDT459N | 30 | Single | 0.035 | 0.055 | – | – | 12 | 6.5 | 3 |
| FDT457N | 30 | Single | 0.06 | 0.09 | – | – | 4.2 | 5 | 3 |
| HUF75309T3ST | 55 | Single | 0.07 | – | – | – | 10.7 | 3 | 1.1 |
| HUFA75309T3ST | 55 | Single | 0.07 | – | – | – | 10.7 | 3 | 1.1 |
| HUF75307T3ST | 55 | Single | 0.09 | – | – | – | 8.3 | 2.6 | 1.1 |
| NDT3055 | 60 | Single | 0.1 | – | – | – | 9 | 4 | 3 |
| FQT13N06L | 60 | Single | 0.11 | 0.14@5V | – | – | 4.8 | 2.8 | 2.1 |
| FQT13N06 | 60 | Single | 0.14 | – | – | – | 5.8 | 2.8 | 2.1 |
| FDT3612 | 100 | Single | 0.12 | – | – | – | 14 | 3.7 | 3 |
| IRFM120A | 100 | Single | 0.2 | – | – | – | 16 | 2.3 | 2.4 |
| FQT7N10 | 100 | Single | 0.35 | – | – | – | 5.8 | 1.7 | 2 |
| IRLM120A | 100 | Single | – | 0.22@5V | – | – | 10.2 | 2.3 | 2.7 |
| FQT7N10L | 100 | Single | 0.35 | 0.38@5V | – | – | 4.6 | 1.7 | 2 |
| IRLM110A | 100 | Single | – | 0.44@5V | – | – | 5.5 | 1.5 | 2.2 |
| IRFM110A | 100 | Single | 0.4 | – | – | – | 8.5 | 1.5 | 2 |
| IRFM220B | 200 | Single | 0.8 | – | – | – | 12 | 1.1 | 2.4 |
| FQT4N20L | 200 | Single | 1.35 | 1.4@5V | – | – | 4 | 0.85 | 2.2 |
| IRLM210A | 200 | Single | – | 1.5@5V | – | – | 6.1 | 0.77 | 1.8 |
| FQT4N20 | 200 | Single | 1.4 | – | – | – | 5 | 0.85 | 2.2 |
| IRFM210B | 200 | Single | 1.5 | – | – | – | 7.2 | 0.77 | 2 |
| IRFM224B | 250 | Single | 1.1 | – | – | – | 13.5 | 0.92 | 2.5 |
| FQT4N25 | 250 | Single | 1.75 | – | – | – | 4.3 | 0.83 | 2.5 |
| IRFM214B | 250 | Single | 2 | – | – | – | 8.1 | 0.64 | 2.1 |
| SOT-223 P-Channel | | | | | | | | | |
| FQT2P25 | -250 | Single | 4 | – | – | – | 6.5 | 0.55 | 2.5 |
| SFM9214 | -250 | Single | 4 | – | – | – | 9 | 0.45 | 1.6 |
| FQT3P20 | -200 | Single | 2.7 | – | – | – | 6 | 0.67 | 2.5 |
| SFM9210 | -200 | Single | 3 | – | – | – | 9 | 0.5 | 1.6 |
| FQT5P10 | -100 | Single | 1.05 | – | – | – | 6.3 | 1 | 2 |
| SFM9110 | -100 | Single | 1.2 | – | – | – | 9 | 1 | 2.5 |
| NDT2955 | -60 | Single | 0.3 | 0.5 | – | – | 11 | 2.5 | 3 |
| SFM9014 | -60 | Single | 0.5 | – | – | – | 9 | 1.8 | 2.8 |
| NDT456P | -30 | Single | 0.03 | 0.045 | – | – | 47 | 7.5 | 3 |
| NDT454P | -30 | Single | 0.05 | 0.09 | – | – | 29 | 5.9 | 3 |
| NDT452AP | -30 | Single | 0.065 | 0.1 | – | – | 22 | 5 | 3 |
| RFT2P03LT | -30 | Single | Replaced by NDT452AP | | | | | | |
| FDT458P | -30 | Single | 0.13 | 0.2 | – | – | 2.5 | 3.4 | 3 |
| FDT434P | -20 | Single | – | 0.05 | 0.07 | – | 13 | 6 | 3 |

SO-14

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|------------------------|-------------------------------|----------------------------|---|--------|------|------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SO-14 N-Channel | | | | | | | | | |
| FDQ7698S | 30 | Dual (MOSFET & SyncFET) | 0.012 | 0.016 | – | – | 12 | 12 | 2.4 |
| | 30 | | 0.0075 | 0.009 | | | 43 | 15 | |
| FDQ7244S | 30 | Dual (MOSFET & SyncFET) | 0.0145 | 0.016 | – | – | 33 | 11 | 2.4 |
| | 30 | | 0.0095 | 0.0105 | | | 48 | 14 | |

TO-92L

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------------------|-------------------------------|---------|---|------|------|------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-92L N-Channel | | | | | | | | | |
| 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 |

TO-251 (IPAK)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------------------------|-------------------------------|---------|---|----------|-------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-251 (IPAK) N-Channel | | | | | | | | | |
| 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 |
| 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 |

TO-251 (IPAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|---------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-251 (IPAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------------------------|-------------------------------|---------|---|------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |
| TO-251 (IPAK) P-Channel | | | | | | | | | |
| 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 |

TO-251 (IPAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|------|------|------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SFU9224 | -250 | Single | 2.4 | – | – | – | 16 | 2.5 | 30 |
| FQU2P25 | -250 | Single | 4 | – | – | – | 6.5 | 2 | 37 |
| 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 |

TO-252 (DPAK)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------------------------|-------------------------------|---------|---|--------|-------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-252 (DPAK) N-Channel | | | | | | | | | |
| 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 |
| 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 |

TO-252 (DPAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|---------------|-------------------------------|---------|---|----------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |
| FDD16AN08A0 | 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 |

TO-252 (DPAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------|-------------------------------|---------|---|---------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |
| FDD120AN15AO | 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 |

TO-252 (DPAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|---------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| IRLR230A | 200 | Single | – | 0.4@5V | – | – | 18.6 | 7.5 | 48 |
| FQD630 | 200 | Single | 0.4 | – | – | – | 19 | 7 | 46 |
| 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 |
| 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 |

TO-252 (DPAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------------------------|-------------------------------|---------|---|------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| TO-252 (DPAK) P-Channel | | | | | | | | | |
| 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 | | | | | | |
| 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 |

DIP-8

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|---|-------------------------------|---------------|---|------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| DIP-8 Complementary N- and P-Channel | | | | | | | | | |
| FQG4902 | 250 | Complementary | 2 | - | - | - | 6 | 0.54 | 1.4 |
| | -250 | | 2 | | | | 12 | 0.54 | |
| FQG4904 | 400 | Complementary | 3 | - | - | - | 7.6 | 0.46 | 1.6 |
| | -400 | | 3 | | | | 20 | 0.46 | |

TO-220

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------------------|-------------------------------|---------|---|--------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-220 N-Channel | | | | | | | | | |
| 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 |
| 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 |

TO-220 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------|-------------------------------|---------|---|----------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-220 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------|-------------------------------|---------|---|----------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| FDPO47AN08AO | 75 | Single | 0.0047 | – | – | – | 92 | 80 | 310 |
| FDP060AN08AO | 75 | Single | 0.006 | – | – | – | 99 | 80 | 285 |
| FDP16AN08AO | 75 | Single | 0.016 | – | – | – | 28 | 58 | 135 |
| 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 |

TO-220 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------|-------------------------------|---------|---|----------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| FQP44N10 | 100 | Single | 0.039 | – | – | – | 48 | 43.5 | 146 |
| HUF75631P3 | 100 | Single | 0.04 | – | – | – | 35 | 33 | 120 |
| 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 |
| 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 |

TO-220 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|---------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-220 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-220 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------------------|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |
| TO-220 P-Channel | | | | | | | | | |
| 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 |
| 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 |

TO-220 (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|--------|--------------------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 0.07@2.7V | – | 25 | 24 | 60 |
| FDP4020P | -20 | Single | – | 0.08 | 0.11 | – | 9.5 | 16 | 37.5 |

TO-262 (I²PAK)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--|-------------------------------|---------|---|----------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-262 (I²PAK) N-Channel | | | | | | | | | |
| 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 |
| RFI525N06 | 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 |
| 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 |

TO-262 (I²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|---------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-262 (I²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|---|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |
| TO-262(I²PAK) P-Channel | | | | | | | | | |
| 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 |

TO-262 (I²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 (D²PAK)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) |
|--|-------------------------------|---------|---|--------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-263 (D²PAK) N-Channel | | | | | | | | | |
| 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 |
| 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 |

TO-263 (D²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|---------------|-------------------------------|---------|---|----------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-263 (D²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------|-------------------------------|---------|---|----------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| FDB045AN08AO | 75 | Single | 0.0045 | – | – | – | 92 | 80 | 310 |
| FDB060AN08AO | 75 | Single | 0.006 | – | – | – | 99 | 80 | 285 |
| FDB16AN08AO | 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 |
| 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 |

TO-263 (D²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|--------------|-------------------------------|---------|---|---------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| HUFA75623S3S | 100 | Single | 0.064 | – | – | – | 23 | 22 | 85 |
| FQB19N10 | 100 | Single | 0.1 | – | – | – | 19 | 19 | 75 |
| 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 |
| 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 |

TO-263 (D²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|---------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-263 (D²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @ V _{GS} = 5V | I _D (A) | P _D (W) | |
|--|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|--|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | | |
| 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 | |
| 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 | |
| TO-263 (D²PAK) P-Channel | | | | | | | | | | |
| 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 | |

TO-263 (D²PAK) (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Qg Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|------|--------------------|-------|---------------------------------------|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 0.07@2.7V | – | 25 | 24 | 60 |
| FDB4020P | -20 | Single | – | 0.08 | 0.11 | – | 9.5 | 16 | 37.5 |

TO-220F

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|--------------------------|-------------------------------|---------|---|----------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-220F N-Channel | | | | | | | | | |
| 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 |
| IRFS40A | 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 |
| 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 |

TO-220F (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|---------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-220F (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-220F (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |

TO-220F (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|--------------------------|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| FQPF2N90 | 900 | Single | 7.2 | – | – | – | 12 | 1.4 | 35 |
| TO-220F P-Channel | | | | | | | | | |
| 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 |
| 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 |
| SFS9Z34 | -60 | Single | 0.14 | – | – | – | 30 | 12 | 36 |
| FQPF11P06 | -60 | Single | 0.175 | – | – | – | 13 | 8.6 | 30 |
| SFS9Z24 | -60 | Single | 0.28 | – | – | – | 15 | 7.5 | 29 |

TO-220F (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| SFS2955 | -60 | Single | 0.3 | – | – | – | 15 | 7.3 | 29 |
| FQPF7P06 | -60 | Single | 0.41 | – | – | – | 6.3 | 5.3 | 24 |
| SFS9Z14 | -60 | Single | 0.5 | – | – | – | 9 | 5.3 | 24 |

TO-247

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|-------------------------|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-247 N-Channel | | | | | | | | | |
| 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 |

DISCRETE POWER

TO-3P

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|------------------------|-------------------------------|---------|---|----------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-3P N-Channel | | | | | | | | | |
| FQA170N06 | 60 | Single | 0.0056 | – | – | – | 220 | 170 | 375 |
| FQA85N06 | 60 | Single | 0.01 | – | – | – | 86 | 100 | 214 |
| FQA65N06 | 60 | Single | 0.016 | – | – | – | 48 | 72 | 183 |
| 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 |
| 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 |

TO-3P (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|------------------------|-------------------------------|---------|---|---------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| 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 |
| TO-3P P-Channel | | | | | | | | | |
| 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 |

TO-3P (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|-------------|-------------------------------|---------|---|------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |

TO-3PF

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|-------------------------|-------------------------------|---------|---|----------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-3PF N-Channel | | | | | | | | | |
| 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 |
| 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 |
| SSF10N60B | 600 | Single | 0.8 | – | – | – | 54 | 6.9 | 90 |

TO-3PF (Continued)

| Part Number | BV _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} =5V | I _D (A) | P _D (W) |
|-------------------------|-------------------------------|---------|---|---------|------|------|--|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| 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 |
| TO-3PF P-Channel | | | | | | | | | |
| 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 _{DSS} Min. (V) | Config. | R _{DS(ON)} Max (Ω) @ V _{GS} = | | | | Q _g Typ. (nC) @V _{GS} = 5V | I _D (A) | P _D (W) |
|-------------------------|-------------------------------|---------|---|------|------|------|---|--------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | 1.8V | | | |
| TO-264 N-Channel | | | | | | | | | |
| FQL50N40 | 400 | Single | 0.075 | – | – | – | 160 | 50 | 460 |
| FQL40N50 | 500 | Single | 0.11 | – | – | – | 155 | 40 | 460 |
| FQL40N50F | 500 | Single | 0.11 | – | – | – | 155 | 40 | 460 |

MOSFET and Schottky Diodes

| Products | V _{DS} (V) | I _D (A) | R _{DS(on)} Max (Ohm) V _{GS} = | | | Q _G | | Schottky Diode | | P _D (W) |
|------------------------------------|---------------------|--------------------|---|-------|-------|----------------|-----------------------|--------------------|----------------------|--------------------|
| | | | 10V | 4.5V | 2.5V | (nC) | @ V _{GS} (V) | V _F (V) | @ I _F (A) | |
| SuperSOT-6/TSOP-6 P-Channel | | | | | | | | | | |
| FDC6392S | -20 | 2.2 | – | 0.15 | 0.2 | 3.7 | 4.5 | 0.45 | 1 | 0.96 |
| TSSOP-8 P-Channel | | | | | | | | | | |
| FDW6923 | -20 | 3.5 | – | 0.045 | 0.075 | 9.7 | 4.5 | 0.5 | 2 | 1.2 |
| SO-8 N-Channel | | | | | | | | | | |
| FDFS6N303 | 30 | 6 | 0.035 | 0.05 | – | 12 | 4.5 | 0.42 | 3 | 2 |
| SO-8 P-Channel | | | | | | | | | | |
| FDFS2P106A | -60 | 3 | 0.11 | 0.14 | – | 15 | 10 | 0.58 | 2 | 2 |
| FDFS2P103 | -30 | 5.3 | 0.059 | 0.092 | – | 5.3 | 5 | 0.57 | 1 | 2 |
| FDFS2P102 | -20 | 3.3 | 0.125 | 0.2 | – | 3.5 | 4.5 | 0.58 | 2 | 2 |
| FDFS2P102A | -20 | 3.3 | 0.125 | 0.2 | – | 2.1 | 5 | 0.58 | 2 | 2 |
| FDFS2P103A | 30 | 5.3 | 0.059 | 0.092 | – | 5.3 | – | 0.35 | 0.25 | 2 |

Load Switches

| Part Number | V _{IN} Max (V) | V _{GS} Max (V) | I _L (A) @ V _{DROP} = 0.2V | | | R _{DS(on)} Max (Ohm) @ V _{IN} = | | | | |
|---|-------------------------|-------------------------|---|------|------|---|-------|------|-------|------|
| | | | 12V | 5V | 2.5V | 12V | 4.5V | 3.3V | 2.5V | 1.8V |
| SC70-6 P-Channel | | | | | | | | | | |
| FDG6331L | 8 | 8 | – | – | 0.7 | – | 0.26 | – | 0.33 | 0.45 |
| FDG6323L | 8 | 8 | – | 0.36 | 0.27 | – | 0.55 | – | 0.75 | – |
| FDG6324L | 20 | 8 | 0.36 | 0.27 | – | 0.55 | 0.75 | – | – | – |
| SuperSOT-6/TSOP-6 Complementary N- and P-Channel | | | | | | | | | | |
| SI3861DV | 8 | – | – | – | – | – | 0.055 | – | 0.07 | 0.1 |
| SuperSOT-6/TSOP-6 P-Channel | | | | | | | | | | |
| FDC6331L | 8 | 8 | – | 2.8 | 2.5 | – | 0.055 | – | 0.07 | 0.1 |
| FDC6329L | 8 | 8 | – | 2.8 | 1.9 | – | 0.07 | – | 0.105 | – |
| FDC6325L | 8 | 8 | – | 1.5 | 1 | – | 0.13 | – | 0.18 | – |
| FDC6323L | 8 | 8 | – | 1 | 0.67 | – | 0.2 | 0.3 | – | – |
| FDC6332L | 8 | – | – | – | – | – | 0.35 | – | 0.5 | 0.75 |
| FDC6330L | 20 | 20 | 2.5 | 1.6 | – | 0.08 | 0.125 | – | – | – |
| FDC6326L | 20 | 20 | 1.5 | 1 | – | 0.125 | 0.2 | – | – | – |
| FDC6324L | 20 | 20 | 1 | 0.67 | – | 0.2 | 0.3 | – | – | – |
| SuperSOT-8 P-Channel | | | | | | | | | | |
| FDR8521L | 20 | 20 | 2.9 | 1.8 | – | 0.07 | 0.115 | – | – | – |

Application Specific MOSFET Drivers

| Part Number | Function | Polarity | Configuration | Operating Voltage Range | | I _{LOAD} (typ) (A) | t _{rise} (typ) (μs) | t _{fall} (typ) (μs) | P _D (W) |
|--------------------------|------------------------------------|-----------|-------------------|-------------------------|-----------------------|-----------------------------|------------------------------|------------------------------|--------------------|
| | | | | V _{DD} (Min) | V _{DD} (Max) | | | | |
| SC70-5 | | | | | | | | | |
| FDG901D | P-Channel Slew Rate Control Driver | P-Channel | Single | 2.7 | 6 | 0.00012 | 28 | – | 0.15 |
| SuperSOT-6/TSOP-6 | | | | | | | | | |
| FDC6901L | Integrated Driver & Load Switch | P-Channel | Single Integrated | 2.7 | 6 | 3 | 124 | – | 1.6 |

Bipolar Power Transistors – Anti-Saturation Transistors

| Part Number | V _{CBO} (V) | V _{CEO} (V) | V _{EBO} (V) | I _C (A) | P _C (W) | h _{FE} | | | V _{CE (sat)} | | t _{STG} (μs) | t _F (μs) |
|--|----------------------|----------------------|----------------------|--------------------|--------------------|-----------------|-----|----------------------|-----------------------|---------|-----------------------|---------------------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) | | |
| TO-126 NPN Configuration | | | | | | | | | | | | |
| KSC5302DM | 800 | 400 | 12 | 2 | 25 | 20 | – | 0.4 | – | 0.4 | 2 | 0.2 |
| TO-220 NPN Configuration | | | | | | | | | | | | |
| KSC5302D | 800 | 400 | 12 | 2 | 50 | 20 | – | 0.4 | – | 0.4 | 2 | 0.2 |
| KSC5402DT | 1000 | 450 | 12 | 2 | 30 | 14 | – | 0.4 | 0.25 | 0.6 | 0.65 | 0.175 |
| KSC5502DT | 1200 | 600 | 12 | 2 | 50 | 15 | 40 | 0.2 | 0.31 | 0.8 | 2 | 0.2 |
| KSC5504DT | 1200 | 600 | 12 | 4 | 75 | 15 | 35 | 0.5 | 0.28 | 0.6 | 4.5 | 0.35 |
| KSC5305D | 800 | 400 | 12 | 5 | 75 | 22 | – | 0.8 | – | 0.4 | 2 | 0.2 |
| KSC5338D | 1000 | 450 | 12 | 5 | 75 | 6 | – | 2 | 0.47 | 0.75 | 2.2 | 0.15 |
| TO-220 TO-263(D²PAK) NPN Configuration | | | | | | | | | | | | |
| KSC5603D | 1600 | 800 | 12 | 3 | 100 | 20 | 35 | 0.4 | 0.5 | 1.25 | 0.175 | 0.2 |
| TO-251(IPAK) NPN Configuration | | | | | | | | | | | | |
| KSC5302DI | 800 | 400 | 12 | 2 | 25 | 20 | – | 0.4 | – | 0.4 | 2 | 0.2 |
| TO-252(DPAK) NPN Configuration | | | | | | | | | | | | |
| KSC5402D | 1000 | 450 | 12 | 2 | 50 | 14 | – | 0.4 | 0.25 | 0.6 | 0.65 | 0.175 |
| KSC5502D | 1200 | 600 | 12 | 2 | 50 | 15 | 40 | 0.2 | 0.31 | 0.8 | 2 | 0.2 |

Bipolar Power Transistors – Audio/Car Amp Output Transistors

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE (sat)} | |
|---------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-----|----------------------|-----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| TO-264 NPN Configuration | | | | | | | | | | |
| FJL4315 | 15 | 230 | 230 | 5 | 150 | 55 | 160 | 1 | 0.4 | 3 |
| TO-264 PNP Configuration | | | | | | | | | | |
| FJL4215 | 15 | 230 | 230 | 5 | 150 | 55 | 160 | 1 | 0.4 | 3 |
| TO-3P NPN Configuration | | | | | | | | | | |
| KSC4010 | 6 | 120 | 120 | 5 | 60 | 55 | 160 | 1 | – | 2.5 |
| FJA4310 | 10 | 140 | 200 | 6 | 100 | 50 | 180 | 3 | – | 0.5 |
| FJA4313 | 15 | 230 | 230 | 5 | 130 | 55 | 160 | 1 | – | 0.5 |
| TO-3P PNP Configuration | | | | | | | | | | |
| KSA3010 | 6 | 120 | 120 | 5 | 60 | 55 | 160 | 1 | – | 2.5 |
| FJA4210 | 10 | 140 | 200 | 6 | 100 | 50 | 180 | 3 | – | 0.5 |
| FJA4213 | 15 | 230 | 230 | 5 | 130 | 55 | 160 | 1 | – | 0.5 |
| TO-3PF NPN Configuration | | | | | | | | | | |
| FJAF4310 | 10 | 140 | 200 | 6 | 80 | 50 | 180 | 3 | – | 0.5 |
| TO-3PF PNP Configuration | | | | | | | | | | |
| FJAF4210 | 10 | 140 | 200 | 6 | 80 | 50 | 180 | 3 | – | 0.5 |

Bipolar Power Transistors – Darlington Transistors

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE(sat)} | |
|---------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-------|----------------------|----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| TO-126 NPN Configuration | | | | | | | | | | |
| KSD985 | 1.5 | 60 | 150 | 8 | 10 | 2000 | 30000 | 1 | – | 1.5 |
| KSD986 | 1.5 | 80 | 150 | 8 | 10 | 2000 | 30000 | 1 | – | 1.5 |
| KSD1692 | 3 | 100 | 150 | 8 | 15 | 2000 | 20000 | 1.5 | 0.9 | 1.2 |
| BD675A | 4 | 45 | 45 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| BD677A | 4 | 60 | 60 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| KSE800 | 4 | 60 | 60 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| KSE801 | 4 | 60 | 60 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| MJE800 | 4 | 60 | 60 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| MJE801 | 4 | 60 | 60 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| BD679A | 4 | 80 | 80 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| KSE802 | 4 | 80 | 80 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| KSE803 | 4 | 80 | 80 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| MJE802 | 4 | 80 | 80 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| MJE803 | 4 | 80 | 80 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| BD681 | 4 | 100 | 100 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| TO-126 PNP Configuration | | | | | | | | | | |
| KSB794 | 1.5 | 60 | 60 | 8 | 10 | 2000 | 30000 | 1 | – | 1.5 |
| KSB795 | 1.5 | 80 | 80 | 8 | 10 | 2000 | 30000 | 1 | – | 1.5 |
| KSB1149 | 3 | 100 | 100 | 8 | 15 | 2000 | 20000 | 1.5 | 0.9 | 1.2 |
| BD676A | 4 | 45 | 45 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| BD678A | 4 | 60 | 60 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| KSE700 | 4 | 60 | 60 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| KSE701 | 4 | 60 | 60 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| MJE700 | 4 | 60 | 60 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| MJE701 | 4 | 60 | 60 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| BD680A | 4 | 80 | 80 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| KSE702 | 4 | 80 | 80 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| KSE703 | 4 | 80 | 80 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| MJE702 | 4 | 80 | 80 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| MJE703 | 4 | 80 | 80 | 5 | 14 | 750 | – | 2 | – | 2.8 |
| BD682 | 4 | 100 | 100 | 5 | 14 | 750 | – | 1.5 | – | 2.5 |
| TO-220 NPN Configuration | | | | | | | | | | |
| TIP110 | 2 | 60 | 60 | 5 | 50 | 500 | – | 2 | – | 2.5 |
| TIP111 | 2 | 80 | 80 | 5 | 50 | 500 | – | 2 | – | 2.5 |
| TIP112 | 2 | 100 | 100 | 5 | 50 | 500 | – | 2 | – | 2.5 |
| KSD5018 | 4 | 275 | 600 | 10 | 40 | – | – | – | – | 1.5 |

Bipolar Power Transistors – Darlington Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE (sat)} | |
|---------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-------|----------------------|-----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| TIP120 | 5 | 60 | 60 | 5 | 65 | 1000 | – | 0.5 | – | 2 |
| TIP121 | 5 | 80 | 80 | 5 | 65 | 1000 | – | 0.5 | – | 2 |
| TIP122 | 5 | 100 | 100 | 5 | 65 | 1000 | – | 0.5 | – | 2 |
| KSD560 | 5 | 100 | 150 | 7 | 30 | 2000 | 15000 | 3 | 0.9 | 1.5 |
| BDW23 | 6 | 45 | 45 | 5 | 50 | 750 | 20000 | 2 | – | 2 |
| BDW23A | 6 | 60 | 60 | 5 | 50 | 750 | 20000 | 2 | – | 2 |
| BDW23B | 6 | 80 | 80 | 5 | 50 | 750 | 20000 | 2 | – | 2 |
| BDW23C | 6 | 100 | 100 | 5 | 50 | 750 | 20000 | 2 | – | 2 |
| BDX53 | 8 | 45 | 45 | 5 | 60 | 750 | – | 3 | – | 2 |
| BDX53A | 8 | 60 | 60 | 5 | 60 | 750 | – | 3 | – | 2 |
| TIP100 | 8 | 60 | 60 | 5 | 80 | 1000 | 20000 | 3 | – | 2 |
| BDX53B | 8 | 80 | 80 | 5 | 60 | 750 | – | 3 | – | 2 |
| TIP101 | 8 | 80 | 80 | 5 | 80 | 1000 | 20000 | 3 | – | 2 |
| BDX53C | 8 | 100 | 100 | 5 | 60 | 750 | – | 3 | – | 2 |
| TIP102 | 8 | 100 | 100 | 5 | 80 | 1000 | 20000 | 3 | – | 2 |
| BU807 | 8 | 150 | 330 | 6 | 60 | – | – | – | – | 1.5 |
| BU806 | 8 | 200 | 400 | 6 | 60 | – | – | – | – | 1.5 |
| KSE5740 | 8 | 300 | – | 8 | 80 | 50 | – | 0.5 | – | 2 |
| KSE5741 | 8 | 350 | – | 8 | 80 | 50 | – | 0.5 | – | 2 |
| KSE5742 | 8 | 400 | – | 8 | 80 | 50 | – | 0.5 | – | 2 |
| TIP140T | 10 | 60 | 60 | 5 | 80 | 1000 | – | 5 | – | 2 |
| BDX33B | 10 | 80 | 80 | – | 70 | 750 | – | 3 | – | 2.5 |
| TIP141T | 10 | 80 | 80 | 5 | 80 | 1000 | – | 5 | – | 2 |
| BDX33C | 10 | 100 | 100 | – | 70 | 750 | – | 3 | – | 2.5 |
| TIP142T | 10 | 100 | 100 | 5 | 80 | 1000 | – | 5 | – | 2 |
| BDW93 | 12 | 45 | 45 | – | 80 | 750 | 20000 | 5 | – | 2 |
| BDW93A | 12 | 60 | 60 | – | 80 | 750 | 20000 | 5 | – | 2 |
| BDW93C | 12 | 100 | 100 | – | 80 | 750 | 20000 | 5 | – | 2 |
| TO-220 PNP Configuration | | | | | | | | | | |
| TIP115 | 2 | 60 | 60 | 5 | 50 | 500 | – | 2 | – | 2.5 |
| TIP116 | 2 | 80 | 80 | 5 | 50 | 500 | – | 2 | – | 2.5 |
| TIP117 | 2 | 100 | 100 | 5 | 50 | 500 | – | 2 | – | 2.5 |
| TIP125 | 5 | 60 | 60 | 5 | 65 | 1000 | – | 0.5 | – | 2 |
| TIP126 | 5 | 80 | 80 | 5 | 65 | 1000 | – | 0.5 | – | 2 |
| TIP127 | 5 | 100 | 100 | 5 | 65 | 1000 | – | 0.5 | – | 2 |
| KSB601 | 5 | 100 | 100 | 7 | 30 | 2000 | 15000 | 3 | – | 1.5 |
| BDW24 | 6 | 45 | 45 | 5 | 50 | 750 | 20000 | 2 | – | 2 |

Bipolar Power Transistors – Darlington Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE(sat)} | |
|---------------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-------|----------------------|----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| BDW24A | 6 | 60 | 60 | 5 | 50 | 750 | 20000 | 2 | – | 2 |
| BDW24B | 6 | 80 | 80 | 5 | 50 | 750 | 20000 | 2 | – | 2 |
| BDW24C | 6 | 100 | 100 | 5 | 50 | 750 | 20000 | 2 | – | 2 |
| BDX54 | 8 | 45 | 45 | 5 | 60 | 750 | – | 3 | – | 2 |
| BDX54A | 8 | 60 | 60 | 5 | 60 | 750 | – | 3 | – | 2 |
| TIP105 | 8 | 60 | 60 | 5 | 80 | 1000 | 20000 | 3 | – | 2 |
| BDX54B | 8 | 80 | 80 | 5 | 60 | 750 | – | 3 | – | 2 |
| TIP106 | 8 | 80 | 80 | 5 | 80 | 1000 | 20000 | 3 | – | 2 |
| BDX54C | 8 | 100 | 100 | 5 | 60 | 750 | – | 3 | – | 2 |
| TIP107 | 8 | 100 | 100 | 5 | 80 | 1000 | 20000 | 3 | – | 2 |
| BDX34A | 10 | 60 | 60 | – | 70 | 750 | – | 4 | – | 2.5 |
| TIP145T | 10 | 60 | 60 | 5 | 80 | 1000 | – | 5 | – | 2 |
| BDX34B | 10 | 80 | 80 | – | 70 | 750 | – | 3 | – | 2.5 |
| TIP146T | 10 | 80 | 80 | 5 | 80 | 1000 | – | 5 | – | 2 |
| BDX34C | 10 | 100 | 100 | – | 70 | 750 | – | 3 | – | 2.5 |
| TIP147T | 10 | 100 | 100 | 5 | 80 | 1000 | – | 5 | – | 2 |
| BDW94 | 12 | 45 | 45 | – | 80 | 750 | 20000 | 5 | – | 2 |
| BDW94C | 12 | 100 | 100 | – | 80 | 750 | 20000 | 5 | – | 2 |
| TO-220F NPN Configuration | | | | | | | | | | |
| KSD1413 | 3 | 60 | 60 | 5 | 20 | 2000 | – | 1 | – | 1.5 |
| KSD1589 | 5 | 100 | 150 | 7 | 20 | 2000 | 15000 | 3 | 0.9 | 1.5 |
| KSD1417 | 7 | 60 | 60 | 5 | 30 | 2000 | 15000 | 3 | 0.9 | 1.5 |
| BDW93CF | 12 | 100 | 100 | – | 30 | 750 | 20000 | 5 | – | 2 |
| TO-220F PNP Configuration | | | | | | | | | | |
| FJPF9020 | 2 | 550 | 550 | 6 | 15 | 400 | 700 | 1 | – | 1.5 |
| KSB1023 | 3 | 60 | 60 | 5 | 20 | 2000 | – | 1 | – | 1.5 |
| KSB1098 | 5 | 100 | 100 | 7 | 20 | 2000 | 15000 | 3 | – | 1.5 |
| KSB1022 | 7 | 60 | 60 | 5 | 30 | 2000 | 15000 | 3 | 0.95 | 1.5 |
| TO-251(IPAK) NPN Configuration | | | | | | | | | | |
| KSD1222 | 3 | 40 | 60 | 5 | 15 | 2000 | – | 1 | – | 1.5 |
| TO-251(IPAK) PNP Configuration | | | | | | | | | | |
| KSB907 | 3 | 40 | 60 | 5 | 15 | 2000 | – | 1 | – | 1.5 |
| TO-252(DPAK) NPN Configuration | | | | | | | | | | |
| KSH112 | 2 | 100 | 100 | 5 | 20 | 1000 | 12000 | 2 | – | 2 |
| MJD112 | 2 | 100 | 100 | 5 | 20 | 1000 | 12000 | 2 | – | 2 |
| KSH122 | 8 | 100 | 100 | 5 | 20 | 1000 | 12000 | 4 | – | 2 |
| MJD122 | 8 | 100 | 100 | 5 | 20 | 1000 | 12000 | 4 | – | 2 |

Bipolar Power Transistors – Darlington Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE (sat)} | |
|---------------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-------|----------------------|-----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| TO-252(DPAK) PNP Configuration | | | | | | | | | | |
| KSH117 | 2 | 100 | 100 | 5 | 20 | 1000 | 12000 | 2 | – | 2 |
| MJD117 | 2 | 100 | 100 | 5 | 20 | 1000 | 12000 | 2 | – | 2 |
| KSH127 | 8 | 100 | 100 | 5 | 20 | 1000 | 12000 | 4 | – | 2 |
| MJD127 | 8 | 100 | 100 | 5 | 20 | 1000 | 12000 | 4 | – | 2 |
| TO-3P NPN Configuration | | | | | | | | | | |
| TIP140 | 10 | 60 | 60 | 5 | 125 | 1000 | – | 5 | – | 2 |
| TIP141 | 10 | 80 | 80 | 5 | 125 | 1000 | – | 5 | – | 2 |
| TIP142 | 10 | 100 | 100 | 5 | 125 | 1000 | – | 5 | – | 2 |
| KSC5047 | 15 | 50 | 100 | 15 | 100 | 40 | – | 5 | – | 0.5 |
| TO-3P PNP Configuration | | | | | | | | | | |
| TIP145 | 10 | 60 | 60 | 5 | 125 | 1000 | – | 5 | – | 2 |
| TIP146 | 10 | 80 | 80 | 5 | 125 | 1000 | – | 5 | – | 2 |
| TIP147 | 10 | 100 | 100 | 5 | 125 | 1000 | – | 5 | – | 2 |
| TO-3PF NPN Configuration | | | | | | | | | | |
| TIP140F | 10 | 60 | 60 | 5 | 60 | 1000 | – | 5 | – | 2 |
| TIP141F | 10 | 80 | 80 | 5 | 60 | 1000 | – | 5 | – | 2 |
| TIP142F | 10 | 100 | 100 | 5 | 60 | 1000 | – | 5 | – | 2 |
| TO-3PF PNP Configuration | | | | | | | | | | |
| TIP145F | 10 | 60 | 60 | 5 | 60 | 1000 | – | 5 | – | 2 |
| TIP146F | 10 | 80 | 80 | 5 | 60 | 1000 | – | 5 | – | 2 |
| TIP147F | 10 | 100 | 100 | 5 | 60 | 1000 | – | 5 | – | 2 |

Bipolar Power Transistors – Dynamic Focus Transistors

| Part Number | V _{CBO} (V) | V _{CEO} (V) | V _{EBO} (V) | I _C (A) | P _C (W) | h _{FE} | | | V _{CE (sat)} | |
|----------------------------------|----------------------|----------------------|----------------------|--------------------|--------------------|-----------------|-----|----------------------|-----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| TO-126 NPN Configuration | | | | | | | | | | |
| KSC5042M | 1500 | 900 | 5 | 0.1 | 4 | 30 | – | 0.01 | – | 5 |
| TO-220 NPN Configuration | | | | | | | | | | |
| KSC5042 | 1500 | 900 | 5 | 0.1 | 10 | 30 | – | 0.01 | – | 5 |
| TO-220F NPN Configuration | | | | | | | | | | |
| KSC5042F | 1500 | 900 | 5 | 0.1 | 6 | 30 | – | 0.01 | – | 5 |

Bipolar Power Transistors – General Purpose Transistors

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE(sat)} | |
|---------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-----|----------------------|----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| TO-126 NPN Configuration | | | | | | | | | | |
| KSC2682 | 0.1 | 180 | 180 | 5 | 8 | 100 | 320 | 0.01 | 0.12 | 0.5 |
| KSC3502 | 0.1 | 200 | 200 | 5 | 5 | 40 | 320 | 0.01 | – | 0.6 |
| KSC2258 | 0.1 | 250 | 250 | 6 | 4 | 40 | – | 0.04 | – | 1.2 |
| KSC2258A | 0.1 | 300 | 300 | 6 | 4 | 40 | – | 0.04 | – | 1.2 |
| KSC3503 | 0.1 | 300 | 300 | 5 | 7 | 40 | 320 | 0.01 | – | 0.6 |
| KSC3953 | 0.2 | 120 | 120 | 3 | 8 | 40 | 120 | 0.01 | – | 1 |
| KSC2688 | 0.2 | 300 | 300 | 5 | 10 | 40 | 250 | 0.01 | – | 1.5 |
| BD157 | 0.5 | 250 | 275 | 5 | 20 | 30 | 240 | 0.05 | – | – |
| BD158 | 0.5 | 300 | 325 | 5 | 20 | 30 | 240 | 0.05 | – | – |
| KSE340 | 0.5 | 300 | 300 | 5 | 20 | 30 | 240 | 0.05 | – | – |
| MJE340 | 0.5 | 300 | 300 | 5 | 20 | 30 | 240 | 0.05 | – | – |
| BD159 | 0.5 | 350 | 375 | 5 | 20 | 30 | 240 | 0.05 | – | – |
| KSC2690 | 1.2 | 120 | 120 | 5 | 20 | 60 | 320 | 0.3 | 0.4 | 0.7 |
| KSC2690A | 1.2 | 160 | 160 | 5 | 20 | 60 | 320 | 0.3 | 0.4 | 0.7 |
| BD135 | 1.5 | 45 | 45 | 5 | 12.5 | 40 | 250 | 0.15 | – | 0.5 |
| BD137 | 1.5 | 60 | 60 | 5 | 12.5 | 40 | 250 | 0.15 | – | 0.5 |
| BD139 | 1.5 | 80 | 80 | 5 | 12.5 | 40 | 250 | 0.15 | – | 0.5 |
| BD233 | 2 | 45 | 45 | 5 | 25 | 40 | – | 0.15 | – | 0.6 |
| BD375 | 2 | 45 | 50 | 5 | 25 | 40 | 375 | 0.15 | – | 1 |
| BD235 | 2 | 60 | 60 | 5 | 25 | 40 | – | 0.15 | – | 0.6 |
| BD377 | 2 | 60 | 75 | 5 | 25 | 40 | 375 | 0.15 | – | 1 |
| BD237 | 2 | 80 | 100 | 5 | 25 | 40 | – | 0.15 | – | 0.6 |
| BD379 | 2 | 80 | 100 | 5 | 25 | 40 | 375 | 0.15 | – | 1 |
| KSD882 | 3 | 30 | 40 | 5 | 10 | 60 | 400 | 1 | 0.3 | 0.5 |
| KSE180 | 3 | 40 | 60 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| MJE180 | 3 | 40 | 60 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| BD175 | 3 | 45 | 45 | 5 | 30 | 40 | 250 | 0.15 | – | 0.8 |
| KSD794 | 3 | 45 | 70 | 5 | 10 | 60 | 320 | 0.5 | 0.5 | 2 |
| KSE181 | 3 | 60 | 80 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| MJE181 | 3 | 60 | 80 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| KSD794A | 3 | 60 | 70 | 5 | 10 | 60 | 320 | 0.5 | 0.5 | 2 |
| BD179 | 3 | 80 | 80 | 5 | 30 | 40 | 250 | 0.15 | – | 0.8 |
| KSE182 | 3 | 80 | 100 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| MJE182 | 3 | 80 | 100 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| BD433 | 4 | 22 | 22 | 5 | 36 | 40 | – | 0.01 | 0.2 | 0.5 |
| BD435 | 4 | 32 | 32 | 5 | 36 | 40 | – | 0.01 | 0.2 | 0.5 |

Bipolar Power Transistors – General Purpose Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CB0} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE (sat)} | |
|---------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-----|----------------------|-----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| BD437 | 4 | 45 | 45 | 5 | 36 | 30 | – | 0.01 | 0.2 | 0.6 |
| BD439 | 4 | 60 | 60 | 5 | 36 | 20 | – | 0.01 | – | 0.8 |
| BD441 | 4 | 80 | 80 | 5 | 36 | 15 | – | 0.01 | – | 0.8 |
| KSE200 | 5 | 25 | 40 | 8 | 15 | 45 | 180 | 2 | – | 0.75 |
| MJE200 | 5 | 25 | 40 | 8 | 15 | 45 | 180 | 2 | – | 0.75 |
| KSD1691 | 5 | 60 | 60 | 7 | 20 | 100 | 400 | 2 | 0.1 | 0.3 |
| TO-126 PNP Configuration | | | | | | | | | | |
| KSA1142 | 0.1 | 180 | 180 | 5 | 8 | 100 | 320 | 0.01 | 0.16 | 0.5 |
| KSA1406 | 0.1 | 200 | 200 | 4 | 7 | 40 | 120 | 0.01 | – | 0.8 |
| KSA1381 | 0.1 | 300 | 300 | 5 | 7 | 40 | 320 | 0.01 | – | 0.6 |
| KSE350 | 0.5 | 300 | 300 | 5 | 20 | 30 | 240 | 0.05 | – | – |
| MJE350 | 0.5 | 300 | 300 | 5 | 20 | 30 | 240 | 0.05 | – | – |
| KSA1220 | 1.2 | 120 | 120 | 5 | 20 | 60 | 320 | 0.3 | 0.4 | 0.7 |
| KSA1220A | 1.2 | 160 | 160 | 5 | 20 | 60 | 320 | 0.3 | 0.4 | 0.7 |
| BD136 | 1.5 | 45 | 45 | 5 | 12.5 | 40 | 250 | 0.15 | – | 0.5 |
| BD138 | 1.5 | 60 | 60 | 5 | 12.5 | 40 | 250 | 0.15 | – | 0.5 |
| BD140 | 1.5 | 80 | 80 | 5 | 12.5 | 40 | 250 | 0.15 | – | 0.5 |
| BD234 | 2 | 45 | 45 | 5 | 25 | 40 | – | 0.15 | – | 0.6 |
| BD376 | 2 | 45 | 50 | 5 | 25 | 40 | 375 | 0.15 | – | 1 |
| BD236 | 2 | 60 | 60 | 5 | 25 | 40 | – | 0.15 | – | 0.6 |
| BD378 | 2 | 60 | 75 | 5 | 25 | 40 | 375 | 0.15 | – | 1 |
| BD238 | 2 | 80 | 100 | 5 | 25 | 40 | – | 0.15 | – | 0.6 |
| BD380 | 2 | 80 | 100 | 5 | 25 | 40 | 375 | 0.15 | – | 1 |
| KSB772 | 3 | 30 | 40 | 5 | 10 | 60 | 400 | 1 | 0.3 | 0.5 |
| KSE170 | 3 | 40 | 60 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| MJE170 | 3 | 40 | 60 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| BD176 | 3 | 45 | 45 | 5 | 30 | 40 | 250 | 0.15 | – | 0.8 |
| KSB744 | 3 | 45 | 70 | 5 | 10 | 60 | 320 | 0.5 | 0.5 | 2 |
| BD178 | 3 | 60 | 60 | 5 | 30 | 40 | 250 | 0.15 | – | 0.8 |
| KSE171 | 3 | 60 | 80 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| MJE171 | 3 | 60 | 80 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| KSB744A | 3 | 60 | 70 | 5 | 10 | 60 | 320 | 0.5 | 0.5 | 2 |
| BD180 | 3 | 80 | 80 | 5 | 30 | 40 | 250 | 0.15 | – | 0.8 |
| KSE172 | 3 | 80 | 100 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| MJE172 | 3 | 80 | 100 | 7 | 12.5 | 50 | 250 | 0.1 | – | 0.3 |
| BD434 | 4 | 22 | 22 | 5 | 36 | 40 | – | 0.01 | 0.2 | 0.5 |
| BD436 | 4 | 32 | 32 | 5 | 36 | 40 | – | 0.01 | 0.2 | 0.5 |

Bipolar Power Transistors – General Purpose Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE (sat)} | |
|---------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|------|----------------------|-----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| BD438 | 4 | 45 | 45 | 5 | 36 | 30 | – | 0.01 | 0.2 | 0.6 |
| BD440 | 4 | 60 | 60 | 5 | 36 | 20 | – | 0.01 | – | 0.8 |
| BD442 | 4 | 80 | 80 | 5 | 36 | 15 | – | 0.01 | – | 0.8 |
| KSE210 | 5 | 25 | 40 | 8 | 15 | 45 | 180 | 2 | – | 0.75 |
| MJE210 | 5 | 25 | 40 | 8 | 15 | 45 | 180 | 2 | – | 0.75 |
| KSB1151 | 5 | 60 | 60 | 7 | 20 | 100 | 400 | 2 | 0.1 | 0.3 |
| TO-220 NPN Configuration | | | | | | | | | | |
| KSC1507 | 0.2 | 300 | 300 | 7 | 15 | 40 | 240 | 0.01 | – | 2 |
| TIP29 | 1 | 40 | 40 | 5 | 30 | 15 | 75 | 1 | – | 0.7 |
| TIP29A | 1 | 60 | 60 | 5 | 30 | 15 | 75 | 1 | – | 0.7 |
| TIP29B | 1 | 80 | 80 | 5 | 30 | 15 | 75 | 1 | – | 0.7 |
| TIP29C | 1 | 100 | 100 | 5 | 30 | 15 | 75 | 1 | – | 0.7 |
| TIP47 | 1 | 250 | 350 | 5 | 40 | 30 | 150 | 0.3 | – | 1 |
| TIP48 | 1 | 300 | 400 | 5 | 40 | 30 | 150 | 0.3 | – | 1 |
| TIP49 | 1 | 350 | 450 | 5 | 40 | 30 | 150 | 0.3 | – | 1 |
| TIP50 | 1 | 400 | 500 | 5 | 40 | 30 | 150 | 0.3 | – | 1 |
| KSC2073 | 1.5 | 150 | 150 | 5 | 25 | 40 | 140 | 0.5 | – | 1 |
| KSE13003T | 1.5 | 400 | 700 | 9 | 30 | 8 | 40 | 0.5 | – | 0.5 |
| BD239 | 2 | 45 | 55 | 5 | 30 | 15 | – | 1 | – | 0.7 |
| BD239A | 2 | 60 | 70 | 5 | 30 | 15 | – | 1 | – | 0.7 |
| BD239B | 2 | 80 | 90 | 5 | 30 | 15 | – | 1 | – | 0.7 |
| BD239C | 2 | 100 | 115 | 5 | 30 | 15 | – | 1 | – | 0.7 |
| KSC1173 | 3 | 30 | 30 | 5 | 10 | 70 | 240 | 0.5 | 0.3 | 0.8 |
| TIP31 | 3 | 40 | 40 | 5 | 40 | 10 | 50 | 3 | – | 1.2 |
| BD241 | 3 | 45 | 55 | 5 | 40 | 10 | – | 3 | – | 1.2 |
| KSD288 | 3 | 55 | 80 | 5 | 25 | 40 | 240 | 0.5 | – | 1 |
| BD241A | 3 | 60 | 70 | 5 | 40 | 10 | – | 3 | – | 1.2 |
| TIP31A | 3 | 60 | 60 | 5 | 40 | 10 | 50 | 3 | – | 1.2 |
| KSD880 | 3 | 60 | 60 | 7 | 30 | 60 | 300 | 0.5 | 0.4 | 1 |
| KSD1943 | 3 | 60 | 80 | 8 | 40 | 400 | 2000 | 0.5 | – | 1.5 |
| BD241B | 3 | 80 | 90 | 5 | 40 | 10 | – | 3 | – | 1.2 |
| TIP31B | 3 | 80 | 80 | 5 | 40 | 10 | 50 | 3 | – | 1.2 |
| BD241C | 3 | 100 | 115 | 5 | 40 | 10 | – | 3 | – | 1.2 |
| TIP31C | 3 | 100 | 100 | 5 | 40 | 10 | 50 | 3 | – | 1.2 |
| KSC2233 | 4 | 60 | 200 | 5 | 40 | 30 | 150 | 1 | – | 1 |
| KSD526 | 4 | 80 | 80 | 5 | 30 | 40 | 240 | 0.5 | 0.45 | 1.5 |
| KSD73 | 5 | 60 | 100 | 5 | 30 | 70 | 240 | 1 | – | 2 |

Bipolar Power Transistors – General Purpose Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE(sat)} | |
|---------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-----|----------------------|----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| KSD362 | 5 | 70 | 150 | 8 | 40 | 20 | 140 | 5 | – | 1 |
| TIP41 | 6 | 40 | 40 | 5 | 65 | 15 | 75 | 3 | – | 1.5 |
| BD243 | 6 | 45 | 45 | 5 | 65 | 30 | – | 0.3 | – | 1.5 |
| TIP41A | 6 | 60 | 60 | 5 | 65 | 15 | 75 | 3 | – | 1.5 |
| BD243A | 6 | 60 | 60 | 5 | 65 | 30 | – | 0.3 | – | 1.5 |
| TIP41B | 6 | 80 | 80 | 5 | 65 | 15 | 75 | 3 | – | 1.5 |
| BD243B | 6 | 80 | 80 | 5 | 65 | 30 | – | 0.3 | – | 1.5 |
| TIP41C | 6 | 100 | 100 | 5 | 65 | 15 | 75 | 3 | – | 1.5 |
| BD243C | 6 | 100 | 100 | 5 | 65 | 30 | – | 0.3 | – | 1.5 |
| KSD363 | 6 | 120 | 300 | 8 | 40 | 40 | 240 | 1 | – | 1 |
| KSD568 | 7 | 60 | 100 | 7 | 40 | 40 | 200 | 3 | – | 0.5 |
| KSD569 | 7 | 80 | 100 | 7 | 40 | 40 | 200 | 3 | – | 0.5 |
| KSC2334 | 7 | 100 | 150 | 7 | 40 | 40 | 240 | 3 | – | 0.6 |
| BU407 | 7 | 150 | 330 | 6 | 60 | – | – | – | – | 1 |
| BU407H | 7 | 150 | 330 | 6 | 60 | – | – | – | – | 1 |
| BU406 | 7 | 200 | 400 | 6 | 60 | – | – | – | – | 1 |
| BU406H | 7 | 200 | 400 | 6 | 60 | – | – | – | – | 1 |
| BU408 | 7 | 200 | 400 | 6 | 60 | – | – | – | – | 1 |
| BD533 | 8 | 45 | 45 | 5 | 50 | 20 | – | 0.01 | – | 0.8 |
| BD535 | 8 | 60 | 60 | 5 | 50 | 20 | – | 0.01 | – | 0.8 |
| BD537 | 8 | 80 | 80 | 5 | 50 | 15 | – | 0.01 | – | 0.8 |
| KSE3055T | 10 | 60 | 70 | 5 | 75 | 20 | 100 | 4 | – | 1.1 |
| MJE3055T | 10 | 60 | 70 | 5 | 75 | 20 | 100 | 4 | – | 1.1 |
| KSE44H | 10 | 80 | – | 5 | 50 | 60 | – | 2 | – | 1 |
| TO-220 PNP Configuration | | | | | | | | | | |
| TIP30 | 1 | 40 | 40 | 5 | 30 | 15 | 75 | 1 | – | 0.7 |
| TIP30A | 1 | 60 | 60 | 5 | 30 | 15 | 75 | 1 | – | 0.7 |
| TIP30B | 1 | 80 | 80 | 5 | 30 | 15 | 75 | 1 | – | 0.7 |
| TIP30C | 1 | 100 | 100 | 5 | 30 | 15 | 75 | 1 | – | 0.7 |
| KSA940 | 1.5 | 150 | 150 | 5 | 25 | 40 | 140 | 0.5 | – | 1.5 |
| BD240 | 2 | 45 | 55 | 5 | 30 | 15 | – | 1 | – | 0.7 |
| BD240A | 2 | 60 | 70 | 5 | 30 | 15 | – | 1 | – | 0.7 |
| BD240B | 2 | 80 | 90 | 5 | 30 | 15 | – | 1 | – | 0.7 |
| BD240C | 2 | 100 | 115 | 5 | 30 | 15 | – | 1 | – | 0.7 |
| KSB546 | 2 | 150 | 200 | 5 | 25 | 40 | 240 | 0.4 | – | 1 |
| KSA473 | 3 | 30 | 30 | 5 | 10 | 70 | 240 | 0.5 | 0.3 | 0.8 |
| TIP32 | 3 | 40 | 40 | 5 | 40 | 10 | 50 | 3 | – | 1.2 |

Bipolar Power Transistors – General Purpose Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE (sat)} | |
|----------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|------|----------------------|-----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| BD242 | 3 | 45 | 55 | 5 | 40 | 10 | – | 3 | – | 1.2 |
| KSA614 | 3 | 55 | 80 | 5 | 25 | 40 | 240 | 0.5 | 0.15 | 0.5 |
| BD242A | 3 | 60 | 70 | 5 | 40 | 10 | – | 3 | – | 1.2 |
| TIP32A | 3 | 60 | 60 | 5 | 40 | 10 | 50 | 3 | – | 1.2 |
| KSB834 | 3 | 60 | 60 | 7 | 30 | 60 | 200 | 0.5 | 0.5 | 1 |
| BD242B | 3 | 80 | 90 | 5 | 40 | 10 | – | 3 | – | 1.2 |
| TIP32B | 3 | 80 | 80 | 5 | 40 | 10 | 50 | 3 | – | 1.2 |
| BD242C | 3 | 100 | 115 | 5 | 40 | 10 | – | 3 | – | 1.2 |
| TIP32C | 3 | 100 | 100 | 5 | 40 | 10 | 50 | 3 | – | 1.2 |
| KSB596 | 4 | 80 | 80 | 5 | 30 | 40 | 240 | 0.5 | 1 | 1.7 |
| TIP42 | 6 | 40 | 40 | 5 | 65 | 15 | 75 | 3 | – | 1.5 |
| BD244 | 6 | 45 | 45 | 5 | 65 | 30 | – | 0.3 | – | 1.5 |
| TIP42A | 6 | 60 | 60 | 5 | 65 | 15 | 75 | 3 | – | 1.5 |
| BD244A | 6 | 60 | 60 | 5 | 65 | 30 | – | 0.3 | – | 1.5 |
| TIP42B | 6 | 80 | 80 | 5 | 65 | 15 | 75 | 3 | – | 1.5 |
| BD244B | 6 | 80 | 80 | 5 | 65 | 30 | – | 0.3 | – | 1.5 |
| TIP42C | 6 | 100 | 100 | 5 | 65 | 15 | 75 | 3 | – | 1.5 |
| BD244C | 6 | 100 | 100 | 5 | 65 | 30 | – | 0.3 | – | 1.5 |
| KSB707 | 7 | 60 | 80 | 7 | 40 | 40 | 200 | 3 | – | 0.5 |
| KSB708 | 7 | 80 | 80 | 7 | 40 | 40 | 200 | 3 | – | 0.5 |
| KSA1010 | 7 | 100 | 100 | 7 | 40 | 40 | 200 | 3 | – | 0.6 |
| BD534 | 8 | 45 | 45 | 5 | 50 | 20 | – | 0.01 | – | 0.8 |
| BD536 | 8 | 60 | 60 | 5 | 50 | 20 | – | 0.01 | – | 0.8 |
| BD538 | 8 | 80 | 80 | 5 | 50 | 15 | – | 0.01 | – | 0.8 |
| KSE2955T | 10 | 60 | 70 | 5 | 75 | 20 | 100 | 4 | – | 1.1 |
| MJE2955T | 10 | 60 | 70 | 5 | 75 | 20 | 100 | 4 | – | 1.1 |
| KSE45H | 10 | 80 | – | 5 | 50 | 60 | – | 2 | – | 1 |
| TO-220F NPN Configuration | | | | | | | | | | |
| KSC3296 | 1.5 | 150 | 150 | 5 | 20 | 40 | 140 | 0.5 | – | 1.5 |
| KSD2058 | 3 | 60 | 60 | 7 | 25 | 60 | 300 | 0.5 | – | 1.5 |
| KSD1406 | 3 | 60 | 60 | 7 | 25 | 60 | 300 | 0.5 | 0.4 | 1 |
| KSD2012 | 3 | 60 | 60 | 7 | 25 | 100 | 320 | 0.5 | 0.4 | 1 |
| KSD1944 | 3 | 60 | 80 | 8 | 30 | 400 | 2000 | 0.5 | – | 1 |
| KSD1273 | 3 | 60 | 80 | 6 | 40 | 500 | 2500 | 0.5 | – | 1 |
| KSD1408 | 4 | 80 | 80 | 5 | 25 | 40 | 240 | 0.5 | 0.45 | 1.5 |
| KSD1362 | 5 | 70 | 150 | 8 | 20 | 20 | 140 | 5 | – | 1 |
| KSD1588 | 7 | 60 | 100 | 7 | 30 | 40 | 200 | 3 | – | 0.5 |

Bipolar Power Transistors – General Purpose Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE(sat)} | |
|--|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-----|----------------------|----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| TO-220F PNP Configuration | | | | | | | | | | |
| KSA1304 | 1.5 | 150 | 150 | 5 | 20 | 40 | 140 | 0.5 | – | 1.5 |
| KSA1614 | 3 | 55 | 80 | 5 | 20 | 40 | 240 | 0.5 | 0.15 | 0.5 |
| KSB1015 | 3 | 60 | 60 | 7 | 25 | 60 | 200 | 0.5 | 0.5 | 1 |
| KSB1366 | 3 | 60 | 60 | 7 | 25 | 100 | 320 | 0.5 | 0.5 | 1 |
| KSB1017 | 4 | 80 | 80 | 5 | 25 | 40 | 240 | 0.5 | 1 | 1.7 |
| KSB1097 | 7 | 60 | 80 | 7 | 30 | 40 | 200 | 3 | – | 0.5 |
| TO-220 TO-220F NPN Configuration | | | | | | | | | | |
| KSD401 | 2 | 150 | 200 | 5 | 25 | 40 | 400 | 0.4 | – | 1 |
| TO-251(IPAK) NPN Configuration | | | | | | | | | | |
| KSC5054 | 0.5 | 400 | 500 | 7 | 10 | 20 | 80 | 0.05 | – | 1 |
| KSH29 | 1 | 40 | 40 | 5 | 15 | 15 | 75 | 1 | – | 0.7 |
| KSC3076 | 2 | 50 | 50 | 5 | 10 | 70 | 240 | 0.5 | – | 0.5 |
| KSC3073 | 3 | 30 | 30 | 5 | 10 | 70 | 240 | 0.5 | 0.3 | 0.8 |
| KSD1221 | 3 | 60 | 60 | 7 | 20 | 60 | 300 | 0.5 | 0.4 | 1 |
| KSC3074 | 5 | 50 | 60 | 5 | 20 | 70 | 240 | 1 | – | 0.5 |
| KSH30551 | 10 | 60 | 70 | 5 | 20 | 20 | 100 | 4 | – | 1.1 |
| TO-251(IPAK) PNP Configuration | | | | | | | | | | |
| KSA1241 | 2 | 50 | 55 | 5 | 10 | 70 | 240 | 0.5 | – | 0.5 |
| KSA1243 | 3 | 30 | 30 | 5 | 10 | 70 | 240 | 0.5 | 0.3 | 0.8 |
| KSB906 | 3 | 60 | 60 | 7 | 20 | 60 | 200 | 0.5 | 1 | 1.7 |
| KSA1242 | 5 | 20 | 35 | 8 | 10 | 100 | 320 | 0.5 | – | 1 |
| KSA1244 | 5 | 50 | 60 | 5 | 20 | 70 | 240 | 1 | – | 0.5 |
| FJU1615 | 10 | 20 | 30 | 7 | 1 | 200 | 600 | 0.5 | 0.17 | 0.25 |
| TO-251(IPAK) TO-252(DPAK) NPN Configuration | | | | | | | | | | |
| KSH29C | 1 | 100 | 100 | 5 | 15 | 15 | 75 | 1 | – | 0.7 |
| MJD29C | 1 | 100 | 100 | 5 | 15 | 15 | 75 | 1 | – | 0.7 |
| MJD31C | 3 | 100 | 100 | 5 | 15 | 10 | 50 | 3 | – | 1.2 |
| TO-251(IPAK) TO-252(DPAK) PNP Configuration | | | | | | | | | | |
| KSH2955 | 10 | 60 | 70 | 5 | 20 | 20 | 100 | 4 | – | 1.1 |
| TO-252(DPAK) NPN Configuration | | | | | | | | | | |
| KSH340 | 0.5 | 300 | 300 | 3 | 15 | 30 | 240 | 0.05 | 0.34 | 1 |
| MJD340 | 0.5 | 300 | 300 | 3 | 15 | 30 | 240 | 0.05 | 0.35 | 1 |
| MJD29 | 1 | 40 | 40 | 5 | 15 | 15 | 75 | 1 | – | 0.7 |
| KSH47 | 1 | 250 | 350 | 5 | 15 | 30 | 150 | 0.3 | – | 1 |
| MJD47 | 1 | 250 | 350 | 5 | 15 | 30 | 150 | 0.3 | – | 1 |
| KSH50 | 1 | 400 | 500 | 5 | 15 | 30 | 150 | 0.3 | – | 1 |

Bipolar Power Transistors – General Purpose Transistors (Continued)

| Part Number | I _C (A) | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | P _C (W) | h _{FE} | | | V _{CE (sat)} | |
|---|--------------------|----------------------|----------------------|----------------------|--------------------|-----------------|-----|----------------------|-----------------------|---------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) |
| MJD50 | 1 | 400 | 500 | 5 | 15 | 30 | 150 | 0.3 | – | 1 |
| FJD3076 | 2 | 50 | 50 | 5 | 10 | 120 | 270 | 0.5 | 0.5 | 0.8 |
| KSC3233 | 2 | 400 | 500 | 7 | 20 | 20 | – | 0.1 | – | 1 |
| KSH31 | 3 | 40 | 40 | 5 | 15 | 10 | 50 | 3 | – | 1.2 |
| MJD31 | 3 | 40 | 40 | 5 | 15 | 10 | 50 | 3 | – | 1.2 |
| KSH31C | 3 | 100 | 100 | 5 | 15 | 10 | 50 | 3 | – | 1.2 |
| KSH200 | 5 | 25 | 40 | 8 | 12.5 | 45 | 180 | 2 | – | 0.3 |
| MJD200 | 5 | 25 | 40 | 8 | 12.5 | 45 | 180 | 2 | – | 0.3 |
| KSH41C | 6 | 100 | 100 | 5 | 20 | 15 | 75 | 3 | – | 1.5 |
| MJD41C | 6 | 100 | 100 | 5 | 20 | 15 | 75 | 3 | – | 1.5 |
| KSH44H11 | 8 | 80 | – | 5 | 20 | 60 | – | 2 | – | 1 |
| MJD44H11 | 8 | 80 | – | 5 | 20 | 60 | – | 2 | – | 1 |
| KSH3055 | 10 | 60 | 70 | 5 | 20 | 20 | 100 | 4 | – | 1.1 |
| MJD3055 | 10 | 60 | 70 | 5 | 20 | 20 | 100 | 4 | – | 1.1 |
| TO-252(DPAK) PNP Configuration | | | | | | | | | | |
| KSH350 | 0.5 | 300 | 300 | 3 | 15 | 30 | 240 | 0.05 | 0.34 | 1 |
| MJD350 | 0.5 | 300 | 300 | 3 | 15 | 30 | 240 | 0.05 | 0.35 | 1 |
| KSH30 | 1 | 40 | 40 | 5 | 15 | 15 | 75 | 1 | – | 0.7 |
| MJD30 | 1 | 40 | 40 | 5 | 15 | 15 | 75 | 1 | – | 0.7 |
| KSH30C | 1 | 100 | 100 | 5 | 15 | 15 | 75 | 1 | – | 0.7 |
| MJD30C | 1 | 100 | 100 | 5 | 15 | 15 | 75 | 1 | – | 0.7 |
| KSH32 | 3 | 40 | 40 | 5 | 15 | 10 | 50 | 3 | – | 1.2 |
| MJD32 | 3 | 40 | 40 | 5 | 15 | 10 | 50 | 3 | – | 1.2 |
| KSH32C | 3 | 100 | 100 | 5 | 15 | 10 | 50 | 3 | – | 1.2 |
| MJD32C | 3 | 100 | 100 | 5 | 15 | 10 | 50 | 3 | – | 1.2 |
| KSH210 | 5 | 25 | 40 | 8 | 12.5 | 45 | 180 | 2 | – | 0.3 |
| MJD210 | 5 | 25 | 40 | 8 | 12.5 | 45 | 180 | 2 | – | 0.3 |
| KSH42C | 6 | 100 | 100 | 5 | 20 | 15 | 75 | 3 | – | 1.5 |
| MJD42C | 6 | 100 | 100 | 5 | 20 | 15 | 75 | 3 | – | 1.5 |
| KSH45H11 | 8 | 80 | – | 5 | 20 | 60 | – | 2 | – | 1 |
| MJD45H11 | 8 | 80 | – | 5 | 20 | 60 | – | 2 | – | 1 |
| MJD2955 | 10 | 60 | 70 | 5 | 20 | 20 | 100 | 4 | – | 1.1 |
| TO-263(D²PAK) PNP Configuration | | | | | | | | | | |
| KSB834W | 3 | 60 | 60 | 7 | 30 | 60 | 200 | 0.5 | 0.5 | 1 |

Bipolar Power Transistors – Horizontal Deflection Output Transistors

| Part Number | V _{CBO} (V) | V _{CEO} (V) | V _{EBO} (V) | I _C (A) | P _C (W) | h _{FE} | | | V _{CE(sat)} | | t _{STG} (μs) | t _F (μs) |
|----------------------------------|----------------------|----------------------|----------------------|--------------------|--------------------|-----------------|-----|----------------------|----------------------|---------|-----------------------|---------------------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) | | |
| TO-220F NPN Configuration | | | | | | | | | | | | |
| FJPF6806D | 1500 | 750 | 6 | 6 | 40 | 4 | 7 | 4 | – | 5 | 3 | 0.2 |
| TO-264 NPN Configuration | | | | | | | | | | | | |
| FJL6820 | 1500 | 750 | 6 | 20 | 200 | 6 | 9 | 11 | – | 3 | 3 | 0.2 |
| FJL6825 | 1500 | 750 | 6 | 25 | 200 | 6 | 9 | 12 | – | 3 | 3 | 0.2 |
| FJL6920 | 1700 | 800 | 6 | 20 | 200 | 6 | 9 | 11 | – | 3 | 3 | 0.2 |
| TO-3PF NPN Configuration | | | | | | | | | | | | |
| BU508AF | 1500 | 700 | 5 | 5 | 60 | 2 | – | 4.5 | – | 1 | – | – |
| FJAF6806D | 1500 | 750 | 6 | 6 | 50 | 4 | 7 | 4 | – | 5 | 3 | 0.2 |
| FJAF6808D | 1500 | 750 | 6 | 8 | 50 | 5 | 8 | 5 | – | 5 | 3 | 0.2 |
| FJAF6810 | 1500 | 750 | 6 | 10 | 60 | 5 | 8 | 6 | – | 3 | 3 | 0.2 |
| FJAF6810D | 1500 | 750 | 6 | 10 | 60 | 5 | 8 | 6 | – | 3 | 3 | 0.2 |
| FJAF6812 | 1500 | 750 | 6 | 12 | 60 | 5 | 8 | 8 | – | 3 | 3 | 0.2 |
| FJAF6815 | 1500 | 750 | 6 | 15 | 60 | 5 | 8 | 10 | – | 3 | 3 | 0.2 |
| FJAF6820 | 1500 | 750 | 6 | 20 | 60 | 6 | 9 | 11 | – | 3 | 3 | 0.2 |
| FJAF6910 | 1700 | 800 | 6 | 10 | 60 | 7 | 10 | 6 | – | 3 | 4 | 0.3 |
| FJAF6916 | 1700 | 800 | 6 | 16 | 60 | 6 | 9 | 8.5 | – | 3 | 4 | 0.3 |
| FJAF6920 | 1700 | 800 | 6 | 20 | 60 | 6 | 9 | 11 | – | 3 | 3 | 0.2 |

Bipolar Power Transistors – Switching Transistors

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EB0} (V) | I _C (A) | P _C (W) | h _{FE} | | | V _{CE(sat)} | | t _{STG} (μs) | t _F (μs) |
|----------------------------------|----------------------|----------------------|----------------------|--------------------|--------------------|-----------------|-----|----------------------|----------------------|---------|-----------------------|---------------------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) | | |
| TO-126 NPN Configuration | | | | | | | | | | | | |
| KSC2752 | 400 | 500 | 7 | 0.5 | 10 | 20 | 80 | 0.05 | – | 1 | 2.5 | 1 |
| KSE13003 | 400 | 700 | 9 | 1.5 | 20 | 8 | 40 | 0.5 | – | 0.5 | 4 | 0.7 |
| KSE5020 | 500 | 800 | 7 | 3 | 30 | 15 | 50 | 0.3 | – | 1 | 3 | 0.3 |
| KSC5026M | 800 | 1100 | 7 | 1.5 | 20 | 10 | 40 | 0.1 | – | 2 | 3 | 0.3 |
| TO-126 PNP Configuration | | | | | | | | | | | | |
| KSA1156 | 400 | 400 | 7 | 0.5 | 10 | 30 | 200 | 0.1 | – | 1 | 4 | 1 |
| TO-220 NPN Configuration | | | | | | | | | | | | |
| KSE13006 | 300 | 600 | 9 | 8 | 80 | 8 | 60 | 2 | – | 1 | 3 | 0.7 |
| KSE13008 | 300 | 600 | 9 | 12 | 100 | 8 | 40 | 5 | – | 1 | 3 | 0.7 |
| KSC2333 | 400 | 500 | 7 | 2 | 15 | 20 | 80 | 0.1 | – | 1 | 2.5 | 1 |
| KSE13005 | 400 | 700 | 9 | 4 | 75 | 10 | 60 | 1 | – | 0.5 | 4 | 0.9 |
| KSC2518 | 400 | 500 | 7 | 4 | 40 | 20 | 80 | 0.3 | – | 1 | 2.5 | 0.7 |
| BUT11 | 400 | 850 | 9 | 5 | 100 | – | – | – | – | 1.5 | 4 | 0.8 |
| KSC5039 | 400 | 800 | 7 | 5 | 70 | 10 | – | 0.3 | – | 1.5 | 3 | 0.8 |
| KSC2335 | 400 | 500 | 7 | 7 | 40 | 20 | 80 | 1 | – | 1 | 2.5 | 1 |
| BUT12 | 400 | 850 | – | 8 | 100 | – | – | – | – | 1.5 | 4 | 0.8 |
| BUT11A | 450 | 1000 | 9 | 5 | 100 | – | – | – | – | 1.5 | 4 | 0.8 |
| KSC5405 | 450 | 1000 | 9 | 5 | 100 | 10 | 40 | 0.6 | – | 1.5 | 4 | 0.8 |
| KSC5345 | 450 | 900 | 14 | 5 | 40 | 15 | – | 0.6 | – | 1 | 3 | 0.3 |
| BUT12A | 450 | 1000 | – | 8 | 100 | – | – | – | – | 1.5 | 4 | 0.8 |
| KSC5020 | 500 | 800 | 7 | 3 | 40 | 15 | 50 | 0.3 | – | 1 | 3 | 0.3 |
| KSC5321 | 500 | 800 | 7 | 5 | 100 | 15 | 40 | 0.6 | – | 1 | 3 | 0.3 |
| KSC5026 | 800 | 1100 | 7 | 1.5 | 40 | 10 | 40 | 0.1 | – | 2 | 3 | 0.3 |
| KSC5027 | 800 | 1100 | 7 | 3 | 50 | 10 | 40 | 0.2 | – | 2 | 3 | 0.3 |
| KSC5367 | 800 | 1600 | 12 | 3 | 80 | 12 | 35 | 0.4 | – | 2.5 | 2.2 | 0.5 |
| TO-220F NPN Configuration | | | | | | | | | | | | |
| KSC3569 | 400 | 500 | 7 | 2 | 15 | 20 | 80 | 0.1 | – | 1 | 2.5 | 1 |
| KSE13005F | 400 | 700 | 9 | 4 | 30 | 10 | 60 | 1 | – | 0.5 | 4 | 0.9 |
| BUT11F | 400 | 850 | 9 | 5 | 40 | – | – | – | – | 1.5 | 4 | 0.8 |
| KSC5039F | 400 | 800 | 7 | 5 | 30 | 10 | – | 0.3 | – | 1.5 | 3 | 0.8 |
| KSC2335F | 400 | 500 | 7 | 7 | 30 | 20 | 80 | 1 | – | 1 | 2.5 | 1 |
| BUT11AF | 450 | 1000 | 9 | 5 | 40 | – | – | – | – | 1.5 | 4 | 0.8 |
| KSC5405F | 450 | 1000 | 9 | 5 | 40 | 10 | 40 | 0.6 | – | 1.5 | 4 | 0.8 |
| KSC5321F | 500 | 800 | 7 | 5 | 40 | 15 | 40 | 0.6 | – | 1 | 3 | 0.3 |
| KSC5027F | 800 | 1100 | 7 | 3 | 40 | 10 | 40 | 0.2 | – | 2 | 3 | 0.3 |
| KSC5367F | 800 | 1600 | 12 | 3 | 40 | 12 | 35 | 0.4 | – | 2.5 | 2.2 | 0.5 |

Bipolar Power Transistors – Switching Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C (A) | P _C (W) | h _{FE} | | | V _{CE (sat)} | | t _{STG} (μs) | t _F (μs) |
|---|----------------------|----------------------|----------------------|--------------------|--------------------|-----------------|-----|----------------------|-----------------------|---------|-----------------------|---------------------|
| | | | | | | Min | Max | @ I _C (A) | Typ (V) | Max (V) | | |
| TO-263(D²PAK) NPN Configuration | | | | | | | | | | | | |
| KSC5338DW | 450 | 1000 | 12 | 5 | 75 | 15 | – | 0.8 | 0.35 | 0.5 | 2.2 | 0.15 |
| KSC5504D | 600 | 1200 | 12 | 4 | 75 | 15 | 35 | 0.5 | 0.28 | 0.6 | 4.5 | 0.35 |
| TO-3P NPN Configuration | | | | | | | | | | | | |
| KSC2751 | 400 | 500 | 7 | 15 | 120 | 15 | 80 | 2 | 0.3 | 1 | 2.5 | 0.7 |
| KSC5024 | 500 | 800 | 7 | 10 | 90 | 15 | 50 | 0.8 | – | 1 | 3 | 0.3 |
| KSC5025 | 500 | 800 | 7 | 15 | 100 | 15 | 50 | 1.2 | – | 1 | 3 | 0.3 |
| KSC5029 | 800 | 1100 | 7 | 4.5 | 90 | 10 | 40 | 0.3 | – | 2 | 3 | 0.3 |
| KSC5030 | 800 | 1100 | 7 | 6 | 100 | 10 | 40 | 0.4 | – | 2 | 3 | 0.3 |
| KSC3552 | 800 | 1100 | 7 | 12 | 150 | 10 | 40 | 0.8 | – | 2 | 3 | 0.3 |
| TO-3PF NPN Configuration | | | | | | | | | | | | |
| KSC5030F | 800 | 1100 | 7 | 6 | 60 | 10 | 40 | 0.4 | – | 2 | 3 | 0.3 |
| TO-92 NPN Configuration | | | | | | | | | | | | |
| FJN13003 | 400 | 700 | 9 | 1.5 | 1.1 | 9 | 21 | 0.5 | – | 0.5 | 4 | 0.7 |

Small Signal Transistors – Darlington Transistors

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|-----------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|--------|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| SOT-223 NPN Configuration | | | | | | | | | | | |
| PZTA27 | – | 60 | 10 | – | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| PZTA29 | – | 100 | 12 | – | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| NZT605 | 11 | 140 | 10 | – | 5000 | – | 5 | 500 | 1.5 | 1000 | 1 |
| PZTA14 | 30 | 30 | 10 | 1.2 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| BSP50 | 45 | 60 | 5 | – | 2000 | – | 10 | 500 | 1.3 | 500 | 50 |
| BSP51 | 60 | 80 | 5 | – | 2000 | – | 10 | 500 | 1.3 | 500 | 50 |
| BSP52 | 80 | 90 | 5 | – | 2000 | – | 10 | 500 | 1.3 | 500 | 50 |
| PZTA28 | 80 | 80 | 12 | 0.8 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| NZT7053 | 100 | 100 | 12 | 1.5 | 1000 | 20000 | 5 | 1000 | 1.5 | 100 | 0.1 |
| SOT-223 PNP Configuration | | | | | | | | | | | |
| PZTA64 | 30 | 30 | 10 | 1.2 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| SOT-23 NPN Configuration | | | | | | | | | | | |
| KST13 | 30 | 30 | 10 | 0.3 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| KST14 | 30 | 30 | 10 | 0.3 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MMBTA13 | 30 | 30 | 10 | 1.2 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| BCV27 | 30 | 40 | 10 | 1.2 | 20000 | – | 5 | 100 | 1 | 100 | 0.1 |
| MMBTA14 | 30 | 30 | 10 | 1.2 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MMBT6427 | 40 | 40 | 12 | 1.2 | 20000 | 200000 | 5 | 100 | 1.5 | 500 | 0.5 |
| SOT-23 PNP Configuration | | | | | | | | | | | |
| KST63 | 30 | 30 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| KST64 | 30 | 30 | 10 | 0.5 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MMBTA63 | 30 | 30 | 10 | 1.2 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| BCV26 | 30 | 40 | 10 | 1.2 | 20000 | – | 5 | 100 | 1 | 100 | 0.1 |
| MMBTA64 | 30 | 30 | 10 | 1.2 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| SuperSOT NPN Configuration | | | | | | | | | | | |
| MMBTA28 | 80 | 80 | 12 | 0.8 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| TO-226 NPN Configuration | | | | | | | | | | | |
| TN6725A | 50 | 60 | 12 | 1.2 | 4000 | 40000 | 5 | 1000 | 1.5 | 1000 | 2 |
| 2N7053 | 100 | 100 | 12 | 1.5 | 1000 | 20000 | 5 | 1000 | 1.5 | 100 | 0.1 |
| TO-92 NPN Configuration | | | | | | | | | | | |
| KSP12 | 20 | 20 | 10 | – | 20000 | – | 5 | 10 | 1 | 10 | 0.01 |
| MPSA12 | 20 | 20 | 10 | 1.2 | 20000 | – | 5 | 10 | 1 | 10 | 0.01 |
| 2N5306 | 25 | 25 | 12 | 1.2 | 7000 | 70000 | 5 | 2 | 1.4 | 200 | 0.2 |
| KSP13 | 30 | 30 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| KSP14 | 30 | 30 | 10 | 0.5 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |

Small Signal Transistors – Darlington Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|--------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|--------|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| MPSA13 | 30 | 30 | 10 | 1.2 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MPSA14 | 30 | 30 | 10 | 1.2 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| BC517 | 40 | 30 | 10 | – | 30000 | – | 2 | 20 | 1 | 100 | 10 |
| KSP25 | 40 | 40 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| 2N5307 | 40 | 40 | 12 | 1.2 | 2000 | 20000 | 5 | 2 | 1.4 | 200 | 0.2 |
| 2N5308 | 40 | 40 | 12 | 1.2 | 7000 | 70000 | 5 | 2 | 1.4 | 200 | 0.2 |
| 2N6427 | 40 | 40 | 12 | 1.2 | 20000 | 200000 | 5 | 100 | 1.5 | 500 | 0.5 |
| 2N6426 | 40 | 40 | 12 | 1.2 | 30000 | 300000 | 5 | 100 | 1.5 | 500 | 0.5 |
| BSR50 | 45 | 60 | 5 | – | 1000 | – | 10 | 150 | 1.3 | 500 | 0.5 |
| KSP26 | 50 | 50 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MPSA27 | 60 | 60 | – | – | 10000 | – | 5 | 100 | 1.5 | 100 | 10 |
| KSP27 | 60 | 60 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MPSA28 | 80 | 80 | 12 | 0.8 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MPSA29 | 100 | 100 | 12 | 0.8 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| 2N7051 | 100 | 100 | 12 | 1.5 | 1000 | 20000 | 5 | 1000 | 1.5 | 100 | 0.1 |
| 2N7052 | 100 | 100 | 12 | 1.5 | 1000 | 20000 | 5 | 1000 | 1.5 | 100 | 0.1 |
| TO-92 PNP Configuration | | | | | | | | | | | |
| MPSA77 | – | 60 | 10 | – | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| KSP62 | 20 | 20 | 10 | 0.5 | 20000 | – | 5 | 10 | 1 | 10 | 0.01 |
| KSP63 | 30 | 30 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| KSP64 | 30 | 30 | 10 | 0.5 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| BC516 | 30 | 40 | 10 | 1 | 30000 | – | 2 | 20 | 1 | 100 | 0.1 |
| MPSA63 | 30 | 30 | 10 | 1.2 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MPSA64 | 30 | 30 | 10 | 1.2 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| MPSA65 | 30 | 30 | 10 | 1.2 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| KSP75 | 40 | 40 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| KSP76 | 50 | 50 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |
| KSP77 | 60 | 60 | 10 | 0.5 | 10000 | – | 5 | 100 | 1.5 | 100 | 0.1 |

Small Signal Transistors – Digital Transistors

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | R ₁ (KΩ) | R ₂ (KΩ) | h _{FE} | | | | Saturation Voltage | | |
|----------------------------------|----------------------|----------------------|----------------------|----------------|---------------------|---------------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | | | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| SOT-23 NPN Configuration | | | | | | | | | | | | | |
| FJV3110R | 40 | 40 | 5 | 0.1 | 10 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJV3109R | 40 | 40 | 5 | 0.1 | 4.7 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJV3112R | 40 | 40 | 5 | 0.1 | 47 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJV3102R | 50 | 50 | 10 | 0.1 | 10 | 10 | 30 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJV3106R | 50 | 50 | 10 | 0.1 | 10 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV3115R | 50 | 50 | 10 | 0.1 | 2.2 | 10 | 33 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJV3113R | 50 | 50 | 10 | 0.1 | 2.2 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV3103R | 50 | 50 | 10 | 0.1 | 22 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV3107R | 50 | 50 | 10 | 0.1 | 22 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV3101R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 20 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJV3105R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV3114R | 50 | 50 | 10 | 0.1 | 4.7 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV3108R | 50 | 50 | 10 | 0.1 | 47 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV3104R | 50 | 50 | 10 | 0.1 | 47 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| SOT-23 PNP Configuration | | | | | | | | | | | | | |
| FJV4110R | 40 | 40 | 5 | 0.1 | 10 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJV3111R | 40 | 40 | 5 | 0.1 | 22 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJV4111R | 40 | 40 | 5 | 0.1 | 22 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 10 |
| FJV4109R | 40 | 40 | 5 | 0.1 | 4.7 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJV4112R | 40 | 40 | 5 | 0.1 | 47 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJV4102R | 50 | 50 | 10 | 0.1 | 10 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV4106R | 50 | 50 | 10 | 0.1 | 10 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV4113R | 50 | 50 | 10 | 0.1 | 2.2 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV4103R | 50 | 50 | 10 | 0.1 | 22 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV4107R | 50 | 50 | 10 | 0.1 | 22 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV4105R | 50 | 50 | 10 | 0.1 | 4.7 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV4101R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 20 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJV4114R | 50 | 50 | 10 | 0.1 | 4.7 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV4108R | 50 | 50 | 10 | 0.1 | 47 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJV4104R | 50 | 50 | 10 | 0.1 | 47 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| SOT-233 NPN Configuration | | | | | | | | | | | | | |
| FJX3010R | 40 | 40 | 5 | 0.1 | 10 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJX3011R | 40 | 40 | 5 | 0.1 | 22 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJX3009R | 40 | 40 | 5 | 0.1 | 4.7 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJX3012R | 40 | 40 | 5 | 0.1 | 47 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJX3002R | 50 | 50 | 10 | 0.1 | 10 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |

Small Signal Transistors – Digital Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EB0} (V) | I _C Max (A) | R ₁ (KΩ) | R ₂ (KΩ) | h _{FE} | | | | Saturation Voltage | | |
|----------------------------------|----------------------|----------------------|----------------------|---------------------------|------------------------|------------------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | | | | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| FJX3006R | 50 | 50 | 10 | 0.1 | 10 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX3015R | 50 | 50 | 10 | 0.1 | 2.2 | 10 | 33 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJX3013R | 50 | 50 | 10 | 0.1 | 2.2 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX3003R | 50 | 50 | 10 | 0.1 | 22 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX3007R | 50 | 50 | 10 | 0.1 | 22 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX3005R | 50 | 50 | 10 | 0.1 | 4.7 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX3001R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 20 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJX3014R | 50 | 50 | 10 | 0.1 | 4.7 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX3008R | 50 | 50 | 10 | 0.1 | 47 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX3004R | 50 | 50 | 10 | 0.1 | 47 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| SOT-323 PNP Configuration | | | | | | | | | | | | | |
| FJX4010R | 40 | 40 | 5 | 0.1 | 10 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJX4011R | 40 | 40 | 5 | 0.1 | 22 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJX4009R | 40 | 40 | 5 | 0.1 | 4.7 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJX4012R | 40 | 40 | 5 | 0.1 | 47 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJX4002R | 50 | 50 | 10 | 0.1 | 10 | 10 | 30 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJX4006R | 50 | 50 | 10 | 0.1 | 10 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX4013R | 50 | 50 | 10 | 0.1 | 2.2 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX4003R | 50 | 50 | 10 | 0.1 | 22 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX4007R | 50 | 50 | 10 | 0.1 | 22 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX4005R | 50 | 50 | 10 | 0.1 | 4.7 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX4001R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 20 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJX4014R | 50 | 50 | 10 | 0.1 | 4.7 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX4008R | 50 | 50 | 10 | 0.1 | 47 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJX4004R | 50 | 50 | 10 | 0.1 | 47 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| TO-92 NPN Configuration | | | | | | | | | | | | | |
| FJN3310R | 40 | 40 | 5 | 0.1 | 10 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJN3309R | 40 | 40 | 5 | 0.1 | 4.7 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJN3312R | 40 | 40 | 5 | 0.1 | 47 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJN3302R | 50 | 50 | 10 | 0.1 | 10 | 10 | 30 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJN3306R | 50 | 50 | 10 | 0.1 | 10 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN3315R | 50 | 50 | 10 | 0.1 | 2.2 | 10 | 33 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJN3313R | 50 | 50 | 10 | 0.1 | 2.2 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN3303R | 50 | 50 | 10 | 0.1 | 22 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN3307R | 50 | 50 | 10 | 0.1 | 22 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN3301R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 20 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJN3305R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |

DISCRETE POWER

Small Signal Transistors – Digital Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | R ₁ (KΩ) | R ₂ (KΩ) | h _{FE} | | | | Saturation Voltage | | |
|---------------------------------|----------------------|----------------------|----------------------|----------------|---------------------|---------------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | | | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| FJN3314R | 50 | 50 | 10 | 0.1 | 4.7 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN3308R | 50 | 50 | 10 | 0.1 | 47 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN3304R | 50 | 50 | 10 | 0.1 | 47 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| TO-92 PNP Configuration | | | | | | | | | | | | | |
| FJN4310R | 40 | 40 | 5 | 0.1 | 10 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJN3311R | 40 | 40 | 5 | 0.1 | 22 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJN4311R | 40 | 40 | 5 | 0.1 | 22 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 10 |
| FJN4309R | 40 | 40 | 5 | 0.1 | 4.7 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJN4312R | 40 | 40 | 5 | 0.1 | 47 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJN4302R | 50 | 50 | 10 | 0.1 | 10 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN4306R | 50 | 50 | 10 | 0.1 | 10 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN4313R | 50 | 50 | 10 | 0.1 | 2.2 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN4303R | 50 | 50 | 10 | 0.1 | 22 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN4307R | 50 | 50 | 10 | 0.1 | 22 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN4305R | 50 | 50 | 10 | 0.1 | 4.7 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN4301R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 20 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJN4314R | 50 | 50 | 10 | 0.1 | 4.7 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN4308R | 50 | 50 | 10 | 0.1 | 47 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJN4304R | 50 | 50 | 10 | 0.1 | 47 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| TO-92S NPN Configuration | | | | | | | | | | | | | |
| FJNS3210R | 40 | 40 | 5 | 0.1 | 10 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJNS3209R | 40 | 40 | 5 | 0.1 | 4.7 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJNS3212R | 40 | 40 | 5 | 0.1 | 47 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJNS3202R | 50 | 50 | 10 | 0.1 | 10 | 10 | 30 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJNS3206R | 50 | 50 | 10 | 0.1 | 10 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS3215R | 50 | 50 | 10 | 0.1 | 2.2 | 10 | 33 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJNS3213R | 50 | 50 | 10 | 0.1 | 2.2 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS3203R | 50 | 50 | 10 | 0.1 | 22 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS3207R | 50 | 50 | 10 | 0.1 | 22 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS3201R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 20 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJNS3205R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS3214R | 50 | 50 | 10 | 0.1 | 4.7 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS3208R | 50 | 50 | 10 | 0.1 | 47 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS3204R | 50 | 50 | 10 | 0.1 | 47 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| TO-92S PNP Configuration | | | | | | | | | | | | | |
| FJNS4210R | 40 | 40 | 5 | 0.1 | 10 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJNS3211R | 40 | 40 | 5 | 0.1 | 22 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |

Small Signal Transistors – Digital Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | R ₁ (KΩ) | R ₂ (KΩ) | h _{FE} | | | | Saturation Voltage | | |
|-------------|----------------------|----------------------|----------------------|----------------|---------------------|---------------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | | | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| FJNS4211R | 40 | 40 | 5 | 0.1 | 22 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 10 |
| FJNS4209R | 40 | 40 | 5 | 0.1 | 4.7 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJNS4212R | 40 | 40 | 5 | 0.1 | 47 | – | 100 | 600 | 5 | 1 | 0.3 | 10 | 1 |
| FJNS4202R | 50 | 50 | 10 | 0.1 | 10 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS4206R | 50 | 50 | 10 | 0.1 | 10 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS4213R | 50 | 50 | 10 | 0.1 | 2.2 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS4203R | 50 | 50 | 10 | 0.1 | 22 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS4207R | 50 | 50 | 10 | 0.1 | 22 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS4205R | 50 | 50 | 10 | 0.1 | 4.7 | 10 | 30 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS4201R | 50 | 50 | 10 | 0.1 | 4.7 | 4.7 | 20 | – | 5 | 10 | 0.3 | 10 | 0.5 |
| FJNS4214R | 50 | 50 | 10 | 0.1 | 4.7 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS4208R | 50 | 50 | 10 | 0.1 | 47 | 22 | 56 | – | 5 | 5 | 0.3 | 10 | 0.5 |
| FJNS4204R | 50 | 50 | 10 | 0.1 | 47 | 47 | 68 | – | 5 | 5 | 0.3 | 10 | 0.5 |

Small Signal Transistors – General Purpose Transistors

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|----------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|-----|----------------------|----------------------|--------------------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE} ^(sat) (V) | @I _C (mA) | @I _B (mA) |
| SOT-223 NPN Configuration | | | | | | | | | | | |
| BCP68 | 20 | 30 | 5 | 1 | 85 | 375 | 1 | 500 | 0.5 | 1 | 100 |
| FZT649 | 25 | 35 | 5 | 3 | 100 | 300 | 2 | 1000 | 0.6 | 3000 | 300 |
| NZT6714 | 30 | 40 | 5 | 2 | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 |
| PZT3904 | 40 | 60 | 6 | 0.2 | 100 | 300 | 1 | 10 | 0.3 | 50 | 5 |
| PZT2222A | 40 | 75 | 6 | 1 | 100 | 300 | 10 | 150 | 1 | 500 | 50 |
| NZT6715 | 40 | 50 | 5 | 1.5 | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 |
| BCP54 | 45 | 45 | 5 | 1.5 | 40 | 250 | 2 | 150 | 0.5 | 500 | 50 |
| BCP55 | 60 | 60 | 5 | 1.5 | 40 | 250 | 2 | 150 | 0.5 | 500 | 50 |
| NZT560A | 60 | 80 | 5 | 3 | 250 | 550 | 2 | 500 | 0.4 | 3000 | 300 |
| NZT560 | 60 | 80 | 5 | 3 | 100 | 300 | 2 | 500 | 0.45 | 3000 | 300 |
| NZT651 | 60 | 80 | 5 | 4 | 75 | – | 2 | 500 | 0.5 | 2000 | 200 |
| FZT3019 | 80 | 140 | 7 | – | 50 | – | 10 | 1 | 0.2 | 150 | 15 |
| PZTA06 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 100 | 0.25 | 100 | 10 |
| NZT6717 | 80 | 800 | 5 | 1.2 | 50 | 250 | 1 | 250 | 0.35 | 250 | 10 |
| BCP56 | 80 | 100 | 5 | 1.2 | 40 | 250 | 2 | 150 | 0.5 | 500 | 50 |
| PZTA42 | 300 | 300 | 6 | 0.5 | 40 | – | 10 | 30 | 0.5 | 20 | 2 |
| FJT44 | 400 | 500 | 6 | 0.3 | 50 | 200 | 10 | 10 | 0.75 | 50 | 5 |
| SOT-223 PNP Configuration | | | | | | | | | | | |
| BCP69 | 20 | 30 | 5 | 1 | 85 | 375 | 1 | 500 | 5 | 1 | 100 |
| FZT749 | 25 | 35 | 5 | 3 | 100 | 300 | 2 | 1000 | 0.6 | 3000 | 300 |
| NZT6726 | 30 | 40 | 5 | 1.5 | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 |
| NZT6727 | 40 | 50 | 5 | – | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 |
| PZT3906 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.4 | 50 | 5 |
| FZT790A | 40 | 50 | 5 | 3 | 300 | 80 | 2 | 10 | 0.3 | 1000 | 100 |
| BCP51 | 45 | 45 | 5 | – | 40 | 250 | 2 | 150 | 0.5 | 500 | 50 |
| PZT2907A | 60 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| BCP52 | 60 | 60 | 5 | 1.2 | 40 | 250 | 2 | 150 | 0.5 | 500 | 50 |
| NZT6728 | 60 | 60 | 5 | 1.2 | 50 | 250 | 1 | 250 | 0.5 | 250 | 10 |
| NZT660A | 60 | 80 | 5 | 3 | 250 | 550 | 2 | 500 | 0.5 | 3000 | 300 |
| NZT660 | 60 | 80 | 5 | 3 | 100 | 300 | 2 | 500 | 0.55 | 3000 | 300 |
| NZT749 | 60 | 80 | 5 | 4 | 75 | – | 2 | 500 | 0.5 | 2000 | 200 |
| NZT751 | 60 | 80 | 5 | 4 | 75 | – | 2 | 500 | 0.5 | 2000 | 200 |
| PZTA56 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 100 | 0.25 | 100 | 10 |
| NZT6729 | 80 | 80 | 5 | 1 | 50 | 250 | 1 | 250 | 0.5 | 250 | 10 |
| BCP53 | 80 | 100 | 5 | 1.2 | 40 | 250 | 2 | 150 | 0.5 | 500 | 50 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|---------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|------|----------------------|----------------------|--------------------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE} ^(sat) (V) | @I _C (mA) | @I _B (mA) |
| NZT753 | 100 | 120 | 5 | – | 100 | 300 | 2 | 500 | 0.3 | 1000 | 100 |
| PZTA92 | 300 | 300 | 5 | 0.5 | 40 | – | 10 | 10 | 0.5 | 20 | 2 |
| SOT-23 NPN Configuration | | | | | | | | | | | |
| BSV52 | 12 | 20 | 5 | 0.2 | 40 | 120 | 1 | 10 | 0.4 | 50 | 5 |
| MMBT2369 | 15 | 40 | 4 | – | 40 | 120 | 1 | 10 | 0.25 | 10 | 1 |
| MMBT2369A | 15 | 40 | 4 | 0.2 | 40 | 120 | 1 | 10 | 0.5 | 100 | 10 |
| MMBT3646 | 15 | 40 | 5 | 0.3 | 30 | 120 | 0.4 | 30 | 0.5 | 300 | 30 |
| BCX20 | 20 | 30 | 5 | – | 100 | 600 | 1 | 100 | 0.62 | 500 | 50 |
| MMBT6515 | 25 | 40 | 4 | – | 250 | 500 | 10 | 2 | 0.5 | 50 | 5 |
| KST5089 | 25 | 30 | 4 | 0.05 | 400 | 1200 | 5 | 0 | 0.5 | 10 | 1 |
| MMBT5089 | 25 | 30 | 4 | 0.1 | 400 | 1200 | 5 | 0 | 0.5 | 10 | 1 |
| KST4124 | 25 | 30 | 5 | 0.2 | 120 | 360 | 1 | 2 | 0.3 | 50 | 5 |
| MMBT4124 | 25 | 30 | 5 | 0.2 | 120 | 360 | 1 | 2 | 0.3 | 50 | 5 |
| KSC3265 | 25 | 30 | 5 | 0.8 | 100 | 320 | 1 | 100 | 0.4 | 500 | 20 |
| BC818 | 25 | 30 | 5 | 0.8 | 100 | 630 | 1 | 100 | 0.7 | 500 | 50 |
| MMBT2222 | 30 | 60 | 5 | – | 35 | – | 10 | 0 | 0.4 | 150 | 15 |
| BSR13 | 30 | 60 | 5 | – | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| KST5088 | 30 | 35 | 4 | 0.05 | 300 | 900 | 5 | 0 | 0.5 | 10 | 1 |
| MMBT5088 | 30 | 35 | 4 | 0.1 | 300 | 900 | 5 | 0 | 0.5 | 10 | 1 |
| BC848 | 30 | 30 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC849 | 30 | 30 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| KST4123 | 30 | 40 | 5 | 0.2 | 50 | 150 | 1 | 2 | 0.3 | 50 | 5 |
| KSC2859 | 30 | 35 | 5 | 0.5 | 70 | 240 | 1 | 100 | 0.25 | 100 | 10 |
| BCW60A | 32 | 32 | 5 | 0.1 | 120 | 220 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW60B | 32 | 32 | 5 | 0.1 | 180 | 310 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW60C | 32 | 32 | 5 | 0.1 | 250 | 460 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW60D | 32 | 32 | 5 | 0.1 | 380 | 630 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW31 | 32 | 32 | 5 | 0.5 | 110 | 220 | 5 | 2 | 0.25 | 10 | 0.5 |
| BCW32 | 32 | 32 | 5 | 0.5 | 200 | 450 | 5 | 2 | 0.25 | 10 | 0.5 |
| BCW33 | 32 | 32 | 5 | 0.5 | 420 | 800 | 5 | 2 | 0.25 | 10 | 0.5 |
| BCW65C | 32 | 60 | 5 | 1 | 250 | 630 | 1 | 100 | 0.7 | 500 | 50 |
| BSS79C | 40 | 75 | 6 | – | 100 | 300 | 10 | 150 | 0.3 | 150 | 15 |
| BSR17A | 40 | 60 | 6 | 0.2 | 100 | 300 | 1 | 10 | 0.3 | 50 | 5 |
| KST3904 | 40 | 60 | 6 | 0.2 | 100 | 300 | 1 | 10 | 0.3 | 50 | 5 |
| MMBT3904 | 40 | 60 | 6 | 0.2 | 100 | 300 | 1 | 10 | 0.3 | 50 | 5 |
| KST4401 | 40 | 60 | 6 | 0.6 | 100 | 300 | 1 | 150 | 0.75 | 500 | 50 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|-------------|----------------------|----------------------|----------------------|----------------|-----------------|------|----------------------|----------------------|---------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE} (sat) (V) | @I _C (mA) | @I _B (mA) |
| MMBT4400 | 40 | 60 | 6 | 0.6 | 50 | 150 | 1 | 150 | 0.75 | 500 | 50 |
| MMBT4401 | 40 | 60 | 6 | 0.6 | 100 | 300 | 1 | 150 | 0.75 | 500 | 50 |
| KST2222A | 40 | 75 | 6 | 0.6 | 100 | 300 | 10 | 150 | 1 | 500 | 50 |
| BSR14 | 40 | 75 | 6 | 0.8 | 100 | 300 | 10 | 150 | 1 | 500 | 50 |
| MMBT2222A | 40 | 75 | 6 | 1 | 100 | 300 | 10 | 150 | 1 | 500 | 50 |
| MMBT5962 | 45 | 45 | 8 | 0.1 | 600 | 1400 | 5 | 10 | 0.2 | 10 | 0.5 |
| BC847 | 45 | 50 | 6 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC850 | 45 | 50 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BCX70G | 45 | 45 | 5 | 0.2 | 120 | 220 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCX70H | 45 | 45 | 5 | 0.2 | 180 | 310 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCX70J | 45 | 45 | 5 | 0.2 | 250 | 460 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCX70K | 45 | 45 | 5 | 0.2 | 380 | 630 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW71 | 45 | 50 | 5 | 0.5 | 110 | 220 | 5 | 2 | 0.25 | 10 | 0.5 |
| MMBT100 | 45 | 75 | 6 | 0.5 | 100 | 450 | 1 | 10 | 0.4 | 200 | 20 |
| MMBT100A | 45 | 75 | 6 | 0.5 | 300 | 600 | 1 | 10 | 0.4 | 200 | 20 |
| BCX19 | 45 | 50 | 5 | 0.5 | 100 | 600 | 1 | 100 | 0.62 | 500 | 50 |
| BC817 | 45 | 50 | 5 | 0.8 | 100 | 630 | 1 | 100 | 0.7 | 500 | 50 |
| BCW66G | 45 | 75 | 5 | 1 | 160 | 400 | 1 | 100 | 0.7 | 500 | 50 |
| KSC1623 | 50 | 60 | 5 | 0.1 | 90 | 600 | 6 | 1 | 0.3 | 100 | 10 |
| MMBT3416 | 50 | 50 | 5 | 0.5 | 75 | 225 | 4.5 | 2 | 0.3 | 50 | 3 |
| MMBT6428 | 50 | 60 | 3 | 0.5 | 250 | 650 | 5 | 0 | 0.6 | 100 | 5 |
| MMBT5210 | 50 | 50 | 4 | 0.5 | 200 | 600 | 5 | 0 | 0.7 | 10 | 1 |
| BCV71 | 60 | 80 | 5 | – | 110 | 220 | 5 | 2 | 0.25 | 10 | 1 |
| BCV72 | 60 | 80 | 5 | – | 200 | 450 | 5 | 2 | 0.25 | 10 | 1 |
| MMBTA05 | 60 | 60 | 4 | – | 50 | – | 1 | 10 | 0.25 | 100 | 10 |
| KST2484 | 60 | 60 | 6 | 0.05 | – | 800 | 5 | 10 | 0.35 | 1 | 0.1 |
| MMBT2484 | 60 | 60 | 5 | 0.1 | 100 | 500 | 5 | 0 | 0.35 | 1 | 0.1 |
| KST05 | 60 | 60 | 4 | 0.5 | 50 | – | 1 | 100 | 0.25 | 100 | 10 |
| BC846 | 65 | 80 | 6 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| KST06 | 80 | 80 | 4 | 0.5 | 50 | – | 1 | 100 | 0.25 | 100 | 10 |
| MMBTA06 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 10 | 0.25 | 100 | 10 |
| BSS64 | 80 | 120 | 5 | 200 | 20 | – | 1 | 10 | 0.2 | 50 | 15 |
| FJV1845 | 120 | 120 | 5 | 0.05 | 200 | 1200 | 6 | 1 | 0.3 | 10 | 1 |
| KST5550 | 140 | 160 | 6 | 0.6 | 60 | 250 | 5 | 10 | 0.25 | 50 | 5 |
| MMBT5550 | 150 | 160 | 6 | 0.6 | 60 | 250 | 5 | 10 | 0.25 | 50 | 5 |
| KST5551 | 160 | 180 | 6 | 0.6 | 80 | 250 | 5 | 10 | 0.2 | 50 | 5 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|---------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| MMBT5551 | 160 | 180 | 6 | 0.6 | 80 | 250 | 5 | 10 | 0.2 | 50 | 5 |
| KST43 | 200 | 200 | 6 | 0.5 | 40 | – | 10 | 30 | 0.5 | 20 | 2 |
| KST42 | 300 | 300 | 6 | 0.5 | 40 | – | 10 | 30 | 0.5 | 20 | 2 |
| MMBTA42 | 300 | 300 | 6 | 0.5 | 40 | – | 10 | 30 | 0.5 | 20 | 2 |
| SOT-23 PNP Configuration | | | | | | | | | | | |
| MMBT3640 | 12 | 12 | 4 | 0.2 | 30 | 120 | 0.3 | 10 | 0.6 | 50 | 5 |
| MMBT5771 | 15 | 15 | 4 | 0.2 | 50 | 120 | 0.3 | 10 | 0.6 | 50 | 5 |
| KST4126 | 25 | 25 | 4 | 0.2 | 120 | 360 | 1 | 2 | 0.4 | 50 | 5 |
| MMBT4126 | 25 | 25 | 4 | 0.2 | 120 | 360 | 1 | 2 | 0.4 | 50 | 5 |
| MMBT3702 | 25 | 40 | 5 | 0.8 | 60 | 300 | 5 | 50 | 0.25 | 50 | 5 |
| KSA1298 | 25 | 30 | 5 | 0.8 | 100 | 320 | 1 | 100 | 0.4 | 500 | 20 |
| BC808 | 25 | 30 | 5 | 0.8 | 100 | 630 | 1 | 100 | 0.7 | 500 | 50 |
| BC858 | 30 | 30 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| BC859 | 30 | 30 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| KST4125 | 30 | 30 | 4 | 0.2 | 50 | 150 | 1 | 2 | 0.4 | 50 | 5 |
| KSA1182 | 30 | 35 | 5 | 0.5 | 70 | 240 | 1 | 100 | 0.25 | 100 | 10 |
| BCW61A | 32 | 32 | 5 | 0.1 | 120 | 220 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW61B | 32 | 32 | 5 | 0.1 | 140 | 310 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW61C | 32 | 32 | 5 | 0.1 | 250 | 460 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW61D | 32 | 32 | 5 | 0.1 | 380 | 630 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCW30 | 32 | 32 | 5 | 0.5 | 215 | 500 | 5 | 2 | 0.3 | 10 | 0.5 |
| BSR18A | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.4 | 50 | 5 |
| KST3906 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.4 | 50 | 5 |
| MMBT3906 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.4 | 50 | 5 |
| BSR18B | 40 | 40 | 5 | 0.5 | 110 | 220 | 1 | 10 | 0.4 | 50 | 5 |
| KST4403 | 40 | 40 | 5 | 0.6 | 100 | 300 | 2 | 150 | 0.75 | 500 | 50 |
| MMBT4403 | 40 | 40 | 5 | 0.6 | 100 | 300 | 2 | 150 | 0.75 | 500 | 50 |
| BSR15 | 40 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| MMBT2907 | 40 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| BCW69 | 45 | 50 | 5 | – | 120 | 260 | 5 | 2 | 0.3 | 10 | 1 |
| BCX71G | 45 | 45 | 5 | 0.1 | 120 | 220 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCX71J | 45 | 45 | 5 | 0.1 | 250 | 460 | 5 | 2 | 0.55 | 50 | 1.25 |
| BC857 | 45 | 50 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| BC860 | 45 | 50 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| MMBT200 | 45 | 60 | 6 | 0.5 | 100 | 450 | 1 | 10 | 0.4 | 200 | 20 |
| MMBT200A | 45 | 60 | 6 | 0.5 | 300 | 600 | 1 | 10 | 0.4 | 200 | 20 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|----------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| BCX71K | 45 | 45 | 5 | 0.5 | 380 | 630 | 5 | 2 | 0.55 | 50 | 1.25 |
| BCX17 | 45 | 50 | 5 | 0.5 | 100 | 600 | 1 | 100 | 0.62 | 500 | 50 |
| BC807 | 45 | 50 | 5 | 0.8 | 100 | 630 | 1 | 100 | 0.7 | 500 | 50 |
| BCW68G | 45 | 60 | 5 | 0.8 | 160 | 400 | 1 | 100 | 1.5 | 300 | 30 |
| KST5086 | 50 | 50 | 3 | 0.05 | 150 | 500 | 5 | 0 | 0.3 | 10 | 1 |
| KST5087 | 50 | 50 | 3 | 0.05 | 250 | 800 | 5 | 0 | 0.3 | 10 | 1 |
| KSA812 | 50 | 60 | 5 | 0.1 | 90 | 600 | 6 | 1 | 0.3 | 100 | 10 |
| MMBT5087 | 50 | 50 | 3 | 0.1 | 250 | 800 | 5 | 0 | 0.3 | 10 | 1 |
| BCW89 | 60 | 80 | 5 | – | 120 | 260 | 5 | 2 | 0.3 | 10 | 1 |
| BSR16 | 60 | 60 | 5 | – | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| KST55 | 60 | 60 | 4 | 0.5 | 50 | – | 1 | 10 | 0.25 | 100 | 10 |
| MMBTA55 | 60 | 60 | 4 | 0.5 | 100 | – | 1 | 10 | 0.25 | 100 | 10 |
| KST2907A | 60 | 60 | 5 | 0.6 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| MMBT4354 | 60 | 60 | 5 | 0.8 | 50 | 500 | 10 | 100 | 0.15 | 150 | 15 |
| MMBT4355 | 60 | 60 | 5 | 0.8 | 100 | 400 | 10 | 10 | 1 | 1000 | 100 |
| MMBT2907A | 60 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| BC856 | 65 | 80 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| KST56 | 80 | 80 | 4 | 0.5 | 50 | – | 1 | 10 | 0.25 | 100 | 10 |
| MMBTA56 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 100 | 0.25 | 100 | 10 |
| MMBT4356 | 80 | 80 | 5 | 0.8 | 50 | 250 | 10 | 10 | 0.15 | 150 | 15 |
| BSS63 | 100 | 110 | 6 | 0.2 | 30 | – | 1 | 25 | 0.25 | 25 | 2.5 |
| FJV992 | 120 | 120 | 5 | 0.05 | 200 | 800 | 6 | 1 | 0.3 | 10 | 1 |
| KST5401 | 150 | 160 | 5 | 0.5 | 60 | 240 | 5 | 10 | 0.5 | 50 | 5 |
| MMBT5401 | 150 | 160 | 5 | 0.6 | 60 | 240 | 5 | 10 | 0.5 | 50 | 5 |
| KST93 | 200 | 200 | 5 | 0.5 | 40 | – | 10 | 10 | 0.5 | 20 | 2 |
| KST92 | 300 | 300 | 5 | 0.5 | 40 | – | 10 | 10 | 0.5 | 20 | 2 |
| MMBTA92 | 300 | 300 | 5 | 0.5 | 40 | – | 10 | 10 | 0.5 | 20 | 2 |
| SOT-323 NPN Configuration | | | | | | | | | | | |
| FJX3904 | 40 | 60 | 6 | 0.2 | 100 | 300 | 1 | 10 | 0.3 | 50 | 5 |
| FJX2222A | 40 | 75 | 6 | 0.6 | 100 | 300 | 10 | 150 | 1 | 500 | 50 |
| FJX945 | 50 | 60 | 5 | 0.15 | 40 | 700 | 6 | 1 | 0.3 | 100 | 10 |
| SOT-323 PNP Configuration | | | | | | | | | | | |
| FJX1182 | 30 | 35 | 5 | 0.5 | 70 | 240 | 1 | 100 | 0.25 | 100 | 10 |
| FJX3906 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.4 | 50 | 5 |
| FJX733 | 50 | 60 | 5 | 0.15 | 40 | 700 | 6 | 1 | 0.3 | 20 | 2 |
| FJX2907A | 60 | 60 | 5 | 0.6 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | | |
|-----------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|--|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) | |
| SOT-623F NPN Configuration | | | | | | | | | | | | |
| FJZ945 | 50 | 60 | 5 | 0.15 | 40 | 700 | 6 | 1 | 0.3 | 100 | 10 | |
| SOT-623F PNP Configuration | | | | | | | | | | | | |
| FJZ733 | 50 | 60 | 5 | 0.15 | 40 | 700 | 6 | 1 | 0.3 | 100 | 10 | |
| SOT-89 NPN Configuration | | | | | | | | | | | | |
| KSC2982 | 10 | 30 | 6 | 2 | 140 | 600 | 1 | 500 | 0.5 | 2000 | 50 | |
| FJC2098 | 20 | 50 | 6 | 5 | 120 | 390 | 2 | 500 | 1 | 4 | 100 | |
| KSD1621 | 25 | 30 | 6 | 2 | 100 | 560 | 2 | 100 | 0.4 | 1500 | 75 | |
| KSC2883 | 30 | 30 | 5 | 1.5 | 100 | 320 | 2 | 500 | 2 | 1500 | 30 | |
| FJC1963 | 30 | 50 | 6 | 3 | 120 | 560 | 2 | 500 | 0.45 | 1500 | 150 | |
| KSC2881 | 120 | 120 | 5 | 0.8 | 80 | 240 | 5 | 100 | 1 | 500 | 50 | |
| SOT-89 PNP Configuration | | | | | | | | | | | | |
| FJC1386 | 20 | 30 | 6 | 5 | 80 | 390 | 2 | 500 | 1 | 4 | 100 | |
| KSB798 | 25 | 30 | 5 | 1 | 90 | 400 | 1 | 100 | 0.4 | 1000 | 100 | |
| KSB1121 | 25 | 30 | 6 | 2 | 100 | 560 | 2 | 100 | 0.6 | 1500 | 75 | |
| KSA1203 | 30 | 30 | 5 | 1.5 | 100 | 320 | 2 | 500 | 2 | 1500 | 30 | |
| FJC1308 | 30 | 30 | 6 | 3 | 80 | 390 | 2 | 500 | 0.45 | 1500 | 150 | |
| KSA1201 | 120 | 120 | 5 | 0.8 | 80 | 240 | 5 | 100 | 1 | 500 | 50 | |
| SuperSOT NPN Configuration | | | | | | | | | | | | |
| FSB649 | 25 | 35 | 5 | 3 | 100 | 300 | 2 | 1000 | 0.6 | 3000 | 300 | |
| FMMT449 | 30 | 50 | 5 | 1 | 100 | 300 | 2 | 500 | 1 | 2000 | 200 | |
| FSB6714 | 45 | 50 | 5 | 2 | 220 | 475 | 5 | 2 | 0.3 | 10 | 0.5 | |
| FSB619 | 50 | 50 | 5 | 2 | 300 | – | 2 | 200 | 0.32 | 2000 | 50 | |
| FSB560A | 60 | 80 | 5 | 2 | 250 | 550 | 2 | 500 | 0.3 | 2000 | 200 | |
| FSB560 | 60 | 80 | 5 | 2 | 100 | 300 | 2 | 500 | 0.35 | 2000 | 200 | |
| SuperSOT PNP Configuration | | | | | | | | | | | | |
| FSB749 | 25 | 35 | 5 | 3 | 100 | 300 | 2 | 1000 | 0.6 | 3000 | 300 | |
| FMMT549 | 30 | 35 | 5 | 1 | 100 | 300 | 2 | 500 | 0.75 | 2000 | 200 | |
| FSB6726 | 30 | 40 | 5 | 1.5 | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 | |
| FSBCW30 | 32 | 32 | 5 | 0.5 | 215 | 500 | 5 | 2 | 0.3 | 10 | 0.5 | |
| FSB660A | 60 | 60 | 5 | 2 | 250 | 550 | 2 | 500 | 0.3 | 2000 | 200 | |
| FSB660 | 60 | 60 | 5 | 2 | 100 | 300 | 2 | 500 | 0.35 | 2000 | 200 | |
| TO-220 PNP Configuration | | | | | | | | | | | | |
| D45H2A | 30 | – | – | 8 | 100 | – | 5 | 8000 | 1 | 8000 | 400 | |
| TO-226 NPN Configuration | | | | | | | | | | | | |
| MPSW01 | 30 | 40 | 5 | – | 60 | – | 1 | 100 | 0.5 | 1 | 100 | |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|---------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| TN6714A | 30 | 40 | 5 | 2 | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 |
| FPN530A | 30 | 60 | 5 | 3 | 250 | – | 2 | 100 | 0.25 | 1000 | 100 |
| FPN530 | 30 | 60 | 5 | 3 | 100 | – | 2 | 100 | 0.3 | 1000 | 100 |
| FPN330A | 30 | 50 | 5 | 3 | 250 | – | 2 | 100 | 0.45 | 1000 | 100 |
| FPN330 | 30 | 50 | 5 | 3 | 100 | – | 2 | 100 | 0.5 | 1000 | 100 |
| TN2219A | 40 | 75 | 6 | 1 | 100 | 300 | 10 | 150 | 1 | 500 | 50 |
| MPSW3725 | 40 | 60 | 6 | 1.2 | 60 | 180 | 1 | 100 | 0.95 | 1000 | 100 |
| TN6715A | 40 | 50 | 5 | 1.5 | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 |
| TN6705A | 45 | 60 | 5 | 1.5 | 40 | 250 | 2 | 250 | 1 | 1000 | 100 |
| TN6716A | 60 | 60 | 5 | 2 | 50 | 250 | 1 | 250 | 0.5 | 250 | 10 |
| FPN560A | 60 | 80 | 5 | 3 | 250 | 550 | 2 | 500 | 0.3 | 2000 | 200 |
| FPN560 | 60 | 80 | 5 | 3 | 100 | 300 | 2 | 500 | 0.35 | 2000 | 200 |
| TN6707A | 80 | 100 | 5 | – | 40 | 250 | 2 | 250 | 1 | 1000 | 100 |
| MPSW06 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 100 | 0.25 | 100 | 10 |
| TN3019A | 80 | 140 | 7 | 1 | 100 | 300 | 10 | 150 | 0.5 | 500 | 50 |
| TN6717A | 80 | 80 | 5 | 1.2 | 50 | 250 | 1 | 250 | 0.35 | 250 | 10 |
| ZTX614 | 100 | 120 | 10 | – | 10000 | – | 5 | 500 | 1.25 | 800 | 8 |
| TN6718A | 100 | 100 | 5 | 1.2 | 50 | 250 | 1 | 250 | 0.5 | 250 | 10 |
| TN3440A | 250 | 300 | 7 | 0.1 | 40 | 160 | 10 | 20 | 0.5 | 50 | 4 |
| TN6719A | 300 | 300 | 7 | 0.2 | 40 | 200 | 10 | 30 | 0.75 | 30 | 3 |
| TO-226 PNP Configuration | | | | | | | | | | | |
| TN6726A | 30 | 40 | 5 | 1.5 | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 |
| FPN430A | 30 | 35 | 5 | 2 | 250 | – | 2 | 100 | 0.45 | 1000 | 100 |
| FPN430 | 30 | 35 | 5 | 2 | 100 | – | 2 | 100 | 0.5 | 1000 | 100 |
| FPN630A | 30 | 35 | 5 | 3 | 250 | – | 2 | 100 | 0.25 | 1000 | 100 |
| FPN630 | 30 | 35 | 5 | 3 | 100 | – | 2 | 100 | 0.3 | 1000 | 100 |
| ZTX749 | 35 | 45 | 5 | 2 | 100 | 300 | 2 | 1000 | 0.5 | 2000 | 200 |
| ZTX749A | 35 | 45 | 5 | 2 | 100 | 300 | 2 | 1000 | 0.5 | 2000 | 200 |
| TN6727A | 40 | 50 | 5 | 1.5 | 50 | 250 | 1 | 1000 | 0.5 | 1000 | 100 |
| TN2907A | 60 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| TN6728A | 60 | 60 | 5 | 1.2 | 50 | 250 | 1 | 250 | 0.5 | 250 | 10 |
| FPN660A | 60 | 80 | 5 | 3 | 250 | 550 | 2 | 500 | 0.4 | 2000 | 100 |
| FPN660 | 60 | 80 | 5 | 3 | 100 | 300 | 2 | 500 | 0.45 | 2000 | 100 |
| MPSW56 | 80 | 80 | 4 | 1 | 100 | – | 1 | 50 | 0.5 | 250 | 10 |
| TN4033A | 80 | 80 | 5 | 1 | 100 | 300 | 5 | 100 | 0.5 | 500 | 50 |
| TN6729A | 80 | 80 | 5 | 1 | 50 | 250 | 1 | 250 | 0.5 | 250 | 10 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|---------------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|------|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| TN5320A | 200 | 200 | 4 | 0.1 | 30 | 150 | 10 | 50 | 2.5 | 50 | 5 |
| TN5415A | 200 | 200 | 4 | 0.1 | 30 | 150 | 10 | 50 | 2.5 | 50 | 5 |
| TO-252(DPAK) NPN Configuration | | | | | | | | | | | |
| NZD560A | 55 | 80 | 5 | 3 | 250 | 550 | 2 | 500 | 1.5 | 1000 | 8 |
| TO-92 NPN Configuration | | | | | | | | | | | |
| KSC5019 | 10 | 30 | 6 | 2 | 140 | 600 | 1 | 500 | 0.5 | 2000 | 50 |
| PN2369 | 15 | 40 | 4 | – | 40 | 120 | 1 | 10 | 0.25 | 10 | 1 |
| 2N5769 | 15 | 40 | 4 | 0.2 | 40 | 120 | 0.35 | 10 | 0.5 | 100 | 10 |
| PN2369A | 15 | 40 | 4 | 0.2 | 40 | 120 | 1 | 10 | 0.5 | 100 | 10 |
| PN4275 | 15 | 40 | 4 | 0.2 | 35 | 120 | 1 | 10 | 0.5 | 100 | 10 |
| KSD261 | 20 | 40 | 5 | 0.5 | 40 | 400 | 1 | 100 | 0.4 | 500 | 50 |
| SS9013 | 20 | 40 | 5 | 0.5 | 64 | 202 | 1 | 50 | 0.6 | 500 | 50 |
| BC368 | 20 | 25 | 5 | 2 | 85 | 375 | 1 | 500 | 0.5 | 1000 | 100 |
| FJN5471 | 20 | 40 | 7 | 5 | 700 | 1000 | 2 | 500 | 0.5 | 3000 | 100 |
| FJN965 | 20 | 40 | 7 | 5 | 230 | 600 | 2 | 500 | 1 | 3000 | 100 |
| KSD5041 | 20 | 40 | 7 | 5 | 180 | 600 | 2 | 500 | 1 | 3000 | 100 |
| MPS6514 | 25 | 40 | 4 | – | 90 | 300 | 10 | 100 | 0.5 | 50 | 5 |
| MPS6515 | 25 | 40 | 4 | – | 250 | 500 | 10 | 2 | 0.5 | 50 | 5 |
| MPS6521 | 25 | 40 | 4 | – | 300 | 600 | 10 | 2 | 0.5 | 50 | 5 |
| KSC900 | 25 | 30 | 5 | 0.05 | 120 | 1000 | 3 | 0 | 0.2 | 20 | 2 |
| 2N5089 | 25 | 30 | 4 | 0.1 | 400 | 1200 | 5 | 0 | 0.5 | 10 | 1 |
| KSP6520 | 25 | 40 | 4 | 0.1 | 200 | 400 | 10 | 2 | 0.5 | 50 | 5 |
| KSP6521 | 25 | 40 | 4 | 0.1 | 300 | 600 | 10 | 2 | 0.5 | 50 | 5 |
| BC238 | 25 | 30 | 5 | 0.1 | 120 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC239 | 25 | 30 | 5 | 0.1 | 120 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| 2N4124 | 25 | 30 | 5 | 0.2 | 120 | 360 | 1 | 2 | 0.3 | 50 | 5 |
| KSD227 | 25 | 30 | 5 | 0.3 | 70 | 400 | 1 | 50 | 0.4 | 300 | 30 |
| 2N3390 | 25 | 25 | 5 | 0.5 | 400 | 800 | 4.5 | 2 | – | – | – |
| 2N3391A | 25 | 25 | 5 | 0.5 | 250 | 500 | 4.5 | 2 | – | – | – |
| 2N3392 | 25 | 25 | 5 | 0.5 | 150 | 300 | 4.5 | 2 | – | – | – |
| 2N3393 | 25 | 25 | 5 | 0.5 | 90 | 180 | 4.5 | 2 | – | – | – |
| 2N5172 | 25 | 25 | 5 | 0.5 | 100 | 500 | 10 | 10 | 0.25 | 10 | 1 |
| 2N3415 | 25 | 25 | 5 | 0.5 | 180 | 540 | 4.5 | 2 | 0.3 | 50 | 3 |
| PN3565 | 25 | 30 | 6 | 0.5 | 150 | 600 | 10 | 1 | 0.35 | 1 | 0.1 |
| KSC2001 | 25 | 30 | 5 | 0.7 | 90 | 400 | 1 | 100 | 0.6 | 700 | 70 |
| BC338 | 25 | 30 | 5 | 0.8 | 100 | 630 | 1 | 100 | 0.7 | 500 | 50 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|-------------|----------------------|----------------------|----------------------|----------------|-----------------|------|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| PE8050 | 25 | 40 | 6 | 1 | 80 | 300 | 1 | 100 | 0.5 | 800 | 80 |
| SS8050 | 25 | 40 | 6 | 1.5 | 85 | 300 | 1 | 100 | 0.5 | 800 | 80 |
| MPS6513 | 30 | 40 | 4 | – | 90 | 180 | 10 | 2 | 0.5 | 50 | 5 |
| PN2222 | 30 | 60 | 5 | – | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| SS9011 | 30 | 50 | 5 | 0.03 | 28 | 198 | 5 | 1 | 0.3 | 10 | 1 |
| KSC839 | 30 | 35 | 4 | 0.1 | 40 | 400 | 12 | 2 | 0.4 | 10 | 1 |
| 2N5088 | 30 | 35 | 4 | 0.1 | 300 | 900 | 5 | 0 | 0.5 | 10 | 1 |
| BC183 | 30 | 45 | 5 | 0.1 | 80 | – | 5 | 100 | 0.6 | 100 | 5 |
| BC183C | 30 | 45 | 6 | 0.1 | 120 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC183LC | 30 | 45 | 5 | 0.1 | 100 | 850 | 5 | 2 | 0.6 | 100 | 5 |
| BC548 | 30 | 30 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC549 | 30 | 30 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| 2N4123 | 30 | 40 | 5 | 0.2 | 50 | 150 | 1 | 2 | 0.3 | 50 | 5 |
| BC184LC | 30 | 45 | 5 | 0.2 | 250 | – | 5 | 2 | 0.6 | 100 | 5 |
| PN3643 | 30 | 60 | 5 | 0.5 | 100 | 300 | 10 | 150 | 0.22 | 150 | 15 |
| 2N3704 | 30 | 50 | 5 | 0.5 | 100 | 300 | 5 | 50 | 0.6 | 100 | 5 |
| BC184 | 30 | 45 | 5 | 0.5 | 130 | – | 5 | 2 | 0.6 | 100 | 5 |
| BC184C | 30 | 45 | 5 | 0.5 | 250 | 800 | 5 | 2 | 0.6 | 10 | 0.5 |
| BC184L | 30 | 45 | 5 | 0.5 | 130 | – | 5 | 2 | 0.6 | 100 | 5 |
| PN3566 | 30 | 40 | 5 | 0.5 | 150 | 600 | 10 | 10 | 1 | 100 | 10 |
| PN4141 | 30 | 60 | 5 | 0.5 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| 2N4953 | 30 | 60 | 5 | 1 | 200 | 600 | 10 | 150 | 0.3 | 150 | 15 |
| KSD471A | 30 | 40 | 5 | 1 | 70 | 400 | 1 | 100 | 0.5 | 1000 | 100 |
| MPSA20 | 40 | – | 4 | – | 40 | 400 | 10 | 5 | 0.25 | 10 | 1 |
| 2N3903 | 40 | 60 | 6 | 0.2 | 50 | 150 | 1 | 10 | 0.3 | 50 | 5 |
| 2N3904 | 40 | 60 | 6 | 0.2 | 100 | 300 | 1 | 10 | 0.3 | 50 | 5 |
| TIS97 | 40 | 40 | 6 | 0.5 | 250 | 700 | 5 | 0 | – | – | – |
| PN3569 | 40 | 80 | 5 | 0.5 | 100 | 300 | 1 | 150 | 0.25 | 150 | 15 |
| PN3567 | 40 | 80 | 5 | 0.6 | 40 | 120 | 1 | 150 | 0.25 | 150 | 15 |
| 2N4400 | 40 | 60 | 6 | 0.6 | 50 | 150 | 1 | 150 | 0.75 | 500 | 50 |
| 2N4401 | 40 | 60 | 6 | 0.6 | 100 | 300 | 1 | 150 | 0.75 | 500 | 50 |
| KSP2222A | 40 | 75 | 6 | 0.6 | 100 | 300 | 10 | 150 | 1 | 500 | 50 |
| KS3302 | 40 | 50 | 5 | 1 | – | – | – | – | 0.15 | 100 | 10 |
| MPS6531 | 40 | 60 | 5 | 1 | 90 | 270 | 1 | 100 | 0.3 | 100 | 10 |
| PN2222A | 40 | 75 | 6 | 1 | 100 | 300 | 10 | 150 | 1 | 500 | 50 |
| 2N5962 | 45 | 45 | 8 | 0.1 | 600 | 1400 | 5 | 10 | 0.2 | 10 | 0.5 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|-------------|----------------------|----------------------|----------------------|----------------|-----------------|------|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| MPSA18 | 45 | 45 | 6 | 0.1 | 500 | 1500 | 5 | 10 | 0.3 | 50 | 5 |
| SS9014 | 45 | 50 | 5 | 0.1 | 60 | 1000 | 5 | 1 | 0.3 | 100 | 5 |
| BC237 | 45 | 50 | 6 | 0.1 | 120 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC547 | 45 | 50 | 6 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC547A | 45 | 50 | 6 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC550 | 45 | 50 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| PN930 | 45 | 45 | 5 | 0.1 | 100 | 300 | 5 | 0 | 1 | 10 | 0.5 |
| KSC815 | 45 | 60 | 5 | 0.2 | 40 | 400 | 1 | 50 | 0.4 | 150 | 15 |
| PN3642 | 45 | 60 | 5 | 0.5 | 40 | 120 | 10 | 150 | 0.22 | 150 | 15 |
| PN100 | 45 | 75 | 6 | 0.5 | 100 | 450 | 1 | 10 | 0.4 | 200 | 20 |
| PN100A | 45 | 75 | 6 | 0.5 | 300 | 600 | 1 | 10 | 0.4 | 200 | 20 |
| BC547B | 45 | 50 | 6 | 0.5 | 200 | 450 | 5 | 2 | 0.6 | 100 | 5 |
| BC547C | 45 | 50 | 6 | 0.5 | 420 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| BC337 | 45 | 50 | 5 | 0.8 | 100 | 630 | 1 | 100 | 0.7 | 500 | 50 |
| BC635 | 45 | 45 | 5 | 1 | 40 | 250 | 2 | 150 | 0.5 | 500 | 50 |
| 2N6428A | 50 | 60 | 6 | – | 250 | – | 5 | 0 | 0.2 | 10 | – |
| BC182LB | 50 | 60 | 6 | 0.1 | 80 | – | 5 | 100 | 0.6 | 100 | 5 |
| 2N5210 | 50 | 50 | 4 | 0.1 | 200 | 600 | 5 | 0 | 0.7 | 10 | 1 |
| KSC1815 | 50 | 60 | 5 | 0.15 | 70 | 700 | 6 | 2 | 0.25 | 100 | 10 |
| KSC3114 | 50 | 60 | 12 | 0.15 | 280 | 560 | 6 | 1 | 0.3 | 100 | 10 |
| KSC945 | 50 | 60 | 5 | 0.15 | 40 | 700 | 6 | 1 | 0.3 | 100 | 10 |
| 2N3416 | 50 | 50 | 5 | 0.5 | 75 | 225 | 4.5 | 2 | 0.3 | 50 | 3 |
| 2N3417 | 50 | 50 | 5 | 0.5 | 180 | 540 | 4.5 | 2 | 0.3 | 50 | 3 |
| BC182 | 50 | 60 | 5 | 0.5 | 80 | – | 5 | 100 | 0.6 | 100 | 5 |
| BC182B | 50 | 60 | 5 | 0.5 | 80 | – | 5 | 100 | 0.6 | 100 | 5 |
| BC182L | 50 | 60 | 5 | 0.5 | 80 | – | 5 | 100 | 0.6 | 100 | 10 |
| BC182LA | 50 | 60 | 5 | 0.5 | 80 | – | 5 | 100 | 0.6 | 100 | 10 |
| KSD1616 | 50 | 60 | 6 | 1 | 135 | 600 | 2 | 100 | 0.3 | 1000 | 50 |
| MPSA05 | 60 | 60 | 4 | – | 100 | – | 1 | 100 | 0.25 | 100 | 10 |
| MPS651 | 60 | 80 | 5 | – | 75 | – | 2 | 500 | 0.3 | 1000 | 100 |
| BC337A | 60 | 60 | 5 | – | 100 | 400 | 1 | 100 | 0.7 | 500 | 50 |
| 2N5961 | 60 | 60 | 8 | 0.1 | 150 | 700 | 5 | 10 | 0.2 | 10 | 1 |
| PN2484 | 60 | 60 | 5 | 0.1 | 100 | 500 | 5 | 0 | 0.35 | 1 | 0.1 |
| 2N3859A | 60 | 60 | 6 | 0.5 | 100 | 200 | 1 | 10 | – | – | – |
| KSP05 | 60 | 60 | 4 | 0.5 | 50 | – | 1 | 10 | 0.25 | 100 | 10 |
| KSP8098 | 60 | 60 | 6 | 0.5 | 100 | 300 | 5 | 1 | 0.4 | 100 | 5 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|--------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|------|----------------------|----------------------|---------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE} (sat) (V) | @I _C (mA) | @I _B (mA) |
| MPS8098 | 60 | 60 | 6 | 0.5 | 100 | 300 | 5 | 1 | 0.4 | 100 | 5 |
| KSC1008 | 60 | 80 | 8 | 0.7 | 40 | 400 | 2 | 50 | 0.4 | 500 | 50 |
| PN3568 | 60 | 80 | 5 | 1 | 40 | 120 | 1 | 150 | 0.25 | 150 | 15 |
| KSD1616A | 60 | 120 | 6 | 1 | 135 | 400 | 2 | 100 | 0.3 | 1000 | 50 |
| BC637 | 60 | 60 | 5 | 1 | 40 | 160 | 2 | 150 | 0.5 | 500 | 50 |
| BC546 | 65 | 80 | 6 | 0.1 | 110 | 800 | 5 | 2 | 0.6 | 100 | 5 |
| 2N4410 | 80 | 120 | 5 | 0.2 | 60 | 400 | 1 | 10 | 0.2 | 1 | 0.1 |
| KSP06 | 80 | 80 | 4 | 0.5 | 50 | – | 1 | 10 | 0.25 | 100 | 10 |
| MPSA06 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 100 | 0.25 | 100 | 10 |
| KSP8099 | 80 | 80 | 6 | 0.5 | 100 | 300 | 5 | 1 | 0.4 | 100 | 5 |
| BC639 | 80 | 100 | 5 | 1 | 40 | 160 | 2 | 150 | 0.5 | 500 | 50 |
| 2N5830 | 100 | 120 | 5 | 0.2 | 80 | 500 | 5 | 10 | 0.25 | 50 | 5 |
| KSC1845 | 120 | 120 | 5 | 0.05 | 200 | 1200 | 6 | 1 | 0.3 | 10 | 1 |
| MPSL01 | 120 | 140 | 5 | 0.2 | 50 | 300 | 5 | 10 | 0.3 | 50 | 5 |
| 2N5550 | 140 | 160 | 6 | 0.6 | 60 | 250 | 5 | 10 | 0.25 | 50 | 5 |
| KSC1009 | 140 | 160 | 8 | 0.7 | 40 | 400 | 2 | 50 | 0.7 | 200 | 20 |
| 2N5551 | 160 | 180 | 6 | 0.6 | 80 | 250 | 5 | 10 | 0.2 | 50 | 5 |
| MPSA43 | 200 | 200 | 6 | 0.2 | 50 | 200 | 10 | 30 | 0.4 | 20 | 2 |
| KSP43 | 200 | 200 | 6 | 0.5 | 40 | – | 10 | 30 | 0.5 | 20 | 2 |
| KSP42 | 300 | 300 | 6 | 0.5 | 40 | – | 10 | 30 | 0.5 | 20 | 2 |
| MPSA42 | 300 | 300 | 6 | 0.5 | 40 | – | 10 | 30 | 0.5 | 20 | 2 |
| KSP45 | 350 | 400 | 6 | 0.3 | 50 | 200 | 10 | 10 | 0.75 | 50 | 5 |
| 2N6517 | 350 | 350 | 6 | 0.5 | 30 | 200 | 10 | 30 | 1 | 50 | 5 |
| KSP44 | 400 | 500 | 6 | 0.3 | 50 | 200 | 10 | 10 | 0.75 | 50 | 5 |
| TO-92 PNP Configuration | | | | | | | | | | | |
| PN5134 | 10 | 20 | 3 | 0.5 | 20 | 150 | 1 | 10 | 0.25 | 10 | 1 |
| PN4258 | 12 | 12 | 4 | 0.2 | 30 | 120 | 3 | 10 | 0.5 | 50 | 5 |
| PN3640 | 12 | 12 | 4 | 0.2 | 30 | 120 | 0.3 | 10 | 0.6 | 50 | 5 |
| 2N5772 | 15 | 40 | 5 | – | 30 | 120 | 0.4 | 30 | 0.28 | 100 | 10 |
| 2N5771 | 15 | 15 | 4 | 0.2 | 50 | 120 | 0.3 | 10 | 0.6 | 50 | 5 |
| ST5771–1 | 15 | 15 | 4 | 0.2 | 30 | 150 | 0.3 | 10 | 0.6 | 50 | 5 |
| BC318C | 20 | 30 | 5 | – | 420 | 800 | 5 | 2 | 0.5 | 100 | 5 |
| KSA643 | 20 | 40 | 5 | 0.5 | 40 | 400 | 1 | 100 | 0.4 | 500 | 50 |
| SS9012 | 20 | 40 | 5 | 0.5 | 64 | 202 | 1 | 50 | 0.6 | 500 | 50 |
| BC369 | 20 | 25 | 5 | 1.5 | 85 | 375 | 1 | 500 | 0.5 | 1000 | 100 |
| BC308 | 25 | 30 | 5 | 0.1 | 120 | 800 | 5 | 2 | 0.3 | 10 | 0.5 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|-------------|----------------------|----------------------|----------------------|----------------|-----------------|-----|----------------------|----------------------|---------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE} (sat) (V) | @I _C (mA) | @I _B (mA) |
| BC309 | 25 | 30 | 5 | 0.1 | 120 | 800 | 5 | 2 | 0.3 | 10 | 0.5 |
| 2N4126 | 25 | 25 | 4 | 0.2 | 120 | 360 | 1 | 2 | 0.4 | 50 | 5 |
| KSA642 | 25 | 30 | 5 | 0.3 | 70 | 400 | 1 | 50 | 0.6 | 300 | 30 |
| 2N3702 | 25 | 40 | 5 | 0.5 | 60 | 300 | 5 | 50 | 0.25 | 50 | 5 |
| 2N6076 | 25 | 25 | 5 | 0.5 | 100 | 500 | 10 | 10 | 0.25 | 10 | 1 |
| MPS6523 | 25 | 45 | 4 | 0.5 | 300 | 600 | 10 | 2 | 0.5 | 50 | 5 |
| MPS3702 | 25 | 40 | 5 | 0.8 | 60 | 300 | 5 | 50 | 0.25 | 50 | 5 |
| BC328 | 25 | 30 | 5 | 0.8 | 100 | 630 | 1 | 100 | 0.7 | 500 | 50 |
| PN3638 | 25 | 25 | 4 | 0.8 | 30 | – | 1 | 50 | 1 | 300 | 30 |
| PN3638A | 25 | 25 | 4 | 0.8 | 100 | – | 1 | 50 | 1 | 300 | 30 |
| KSB564A | 25 | 30 | 5 | 1 | 70 | 400 | 1 | 100 | 0.5 | 1000 | 100 |
| MPS6562 | 25 | 25 | 5 | 1 | 50 | 200 | 1 | 500 | 0.5 | 500 | 50 |
| SS8550 | 25 | 40 | 6 | 1.5 | 85 | 300 | 1 | 100 | 0.5 | 800 | 80 |
| BC558 | 30 | 30 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| BC559 | 30 | 30 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| PN4917 | 30 | 30 | 5 | 0.2 | 150 | 300 | 1 | 10 | 0.3 | 50 | 5 |
| 2N4125 | 30 | 30 | 4 | 0.2 | 50 | 150 | 1 | 2 | 0.4 | 50 | 5 |
| 2N3703 | 30 | 50 | 5 | 0.5 | 30 | 150 | 5 | 50 | 0.25 | 50 | 5 |
| PN5138 | 30 | 30 | 5 | 0.5 | 50 | 800 | 10 | 0 | 0.3 | 10 | 0.5 |
| BC214 | 30 | 45 | 5 | 0.5 | 140 | 600 | 5 | 2 | 0.6 | 100 | 5 |
| MPS3703 | 30 | 50 | 5 | 0.8 | 30 | 150 | 5 | 50 | 0.25 | 50 | 5 |
| BC213L | 30 | 45 | 5 | 500 | 80 | 400 | 5 | 2 | 0.6 | 100 | 10 |
| BC214L | 30 | 45 | 5 | 500 | 140 | 400 | 5 | 2 | 0.6 | 100 | 10 |
| BC214LB | 30 | 45 | 5 | 500 | 200 | 400 | 5 | 2 | 0.6 | 100 | 10 |
| BC214LC | 30 | 45 | 5 | 500 | 350 | 600 | 5 | 2 | 0.6 | 100 | 10 |
| PN4250 | 40 | 40 | 5 | – | 250 | 700 | 5 | 0 | 0.25 | 10 | 1 |
| PN4122 | 40 | 40 | 5 | 0.2 | 150 | 300 | 1 | 10 | 0.3 | 50 | 5 |
| 2N3905 | 40 | 40 | 5 | 0.2 | 50 | 150 | 1 | 10 | 0.4 | 50 | 5 |
| 2N3906 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.4 | 50 | 5 |
| MPS6518 | 40 | – | 4 | 0.2 | 150 | 300 | 10 | 2 | 0.5 | 50 | 5 |
| 2N5366 | 40 | 40 | 4 | 0.5 | 100 | 300 | 1 | 50 | 0.25 | 50 | 2.5 |
| 2N4402 | 40 | 40 | 5 | 0.6 | 50 | 150 | 2 | 150 | 0.75 | 500 | 50 |
| 2N4403 | 40 | 40 | 5 | 0.6 | 100 | 300 | 2 | 150 | 0.75 | 500 | 50 |
| TIS93 | 40 | 40 | 5 | 0.8 | 100 | 300 | 2 | 50 | 0.25 | 50 | 5 |
| MPS6534 | 40 | 40 | 4 | 0.8 | 90 | 270 | 1 | 100 | 0.3 | 100 | 10 |
| PN2907 | 40 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|-------------|----------------------|----------------------|----------------------|----------------|-----------------|------|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| PN4143 | 40 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| BC307 | 45 | 50 | 5 | 0.1 | 120 | 800 | 5 | 2 | 0.3 | 10 | 0.5 |
| BC557 | 45 | 50 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| BC560 | 45 | 50 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| SS9015 | 45 | 50 | 5 | 0.1 | 60 | 600 | 5 | 1 | 0.7 | 100 | 5 |
| KSA539 | 45 | 60 | 5 | 0.2 | 40 | 240 | 1 | 50 | 0.5 | 150 | 15 |
| PN200 | 45 | 60 | 6 | 0.5 | 100 | 450 | 1 | 10 | 0.4 | 200 | 20 |
| PN200A | 45 | 60 | 6 | 0.5 | 300 | 600 | 1 | 10 | 0.4 | 200 | 20 |
| BCX79 | 45 | 45 | 5 | 0.5 | 80 | 1000 | 1 | 10 | 1 | 100 | 2.5 |
| PN3644 | 45 | 45 | 5 | 0.8 | 100 | 300 | 10 | 150 | 0.4 | 150 | 15 |
| BC327 | 45 | 50 | 5 | 0.8 | 100 | 630 | 1 | 100 | 0.7 | 500 | 50 |
| BC636 | 45 | 45 | 5 | 1 | 40 | 250 | 2 | 150 | 0.5 | 500 | 50 |
| 2N5086 | 50 | 50 | 3 | 0.1 | 150 | 500 | 5 | 0 | 0.3 | 10 | 1 |
| 2N5087 | 50 | 50 | 3 | 0.1 | 250 | 800 | 5 | 0 | 0.3 | 10 | 1 |
| BC212B | 50 | 60 | 5 | 0.1 | 60 | – | 5 | 2 | 0.6 | 100 | 5 |
| BC212LB | 50 | 60 | 5 | 0.1 | 60 | – | 5 | 2 | 0.6 | 100 | 5 |
| KSA1015 | 50 | 50 | 5 | 0.15 | 70 | 400 | 6 | 2 | 0.3 | 100 | 10 |
| BC212 | 50 | 60 | 5 | 0.3 | 60 | – | 5 | 2 | 0.6 | 100 | 5 |
| BC212L | 50 | 60 | 5 | 0.3 | 60 | 300 | 5 | 2 | 0.6 | 100 | 5 |
| KSB1116 | 50 | 60 | 6 | 1 | 135 | 600 | 2 | 100 | 0.3 | 1000 | 50 |
| KSB1116S | 50 | 60 | 6 | 1 | 135 | 600 | 2 | 100 | 0.3 | 1000 | 50 |
| KSA733 | 50 | 60 | 5 | 150 | 40 | 700 | 6 | 1 | 0.3 | 100 | 10 |
| MPS8598 | 60 | 60 | 5 | – | 100 | 300 | 5 | 1 | 0.4 | 100 | 10 |
| BC327A | 60 | 60 | 5 | – | 100 | 400 | 1 | 100 | 0.7 | 500 | 50 |
| KSP55 | 60 | 60 | 4 | 0.5 | 50 | – | 1 | 10 | 0.25 | 100 | 10 |
| MPSA55 | 60 | 60 | 4 | 0.5 | 100 | – | 1 | 10 | 0.25 | 100 | 10 |
| PN4249 | 60 | 60 | 5 | 0.5 | 100 | 300 | 5 | 0 | 0.25 | 10 | 0.5 |
| PN4250A | 60 | 60 | 5 | 0.5 | 250 | 700 | 5 | 0 | 0.25 | 10 | 0.5 |
| KSP8598 | 60 | 60 | 5 | 0.5 | 100 | 300 | 5 | 1 | 0.4 | 100 | 5 |
| KSP2907A | 60 | 60 | 5 | 0.6 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| KSA708 | 60 | 80 | 8 | 0.7 | 40 | 240 | 2 | 50 | 0.7 | 500 | 50 |
| PN3645 | 60 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 0.4 | 150 | 15 |
| PN4355 | 60 | 60 | 5 | 0.8 | 100 | 400 | 10 | 10 | 1 | 1000 | 100 |
| PN2907A | 60 | 60 | 5 | 0.8 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| KSB1116A | 60 | 80 | 6 | 1 | 135 | 600 | 2 | 100 | 0.3 | 1000 | 50 |
| BC638 | 60 | 60 | 5 | 1 | 40 | 160 | 2 | 150 | 0.5 | 500 | 50 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | |
|---------------------------------|----------------------|----------------------|----------------------|----------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| MPS751 | 60 | 80 | 5 | 2 | 75 | – | 2 | 500 | 0.5 | 2000 | 200 |
| BC556 | 65 | 80 | 5 | 0.1 | 110 | 800 | 5 | 2 | 0.65 | 100 | 5 |
| KSP56 | 80 | 80 | 4 | 0.5 | 50 | – | 1 | 10 | 0.25 | 100 | 10 |
| MPSA56 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 100 | 0.25 | 100 | 10 |
| KSP8599 | 80 | 80 | 5 | 0.5 | 100 | 300 | 5 | 1 | 0.4 | 100 | 5 |
| PN4356 | 80 | 80 | 5 | 0.8 | 50 | 250 | 10 | 10 | 0.5 | 500 | 50 |
| BC640 | 80 | 100 | 5 | 1 | 40 | 160 | 2 | 150 | 0.5 | 500 | 50 |
| MPSL51 | 100 | 100 | 4 | 0.2 | 40 | 250 | 5 | 50 | 0.3 | 50 | 5 |
| KSA992 | 120 | 120 | 5 | 0.05 | 200 | 800 | 6 | 1 | 0.3 | 10 | 1 |
| 2N5400 | 120 | 130 | 5 | 0.6 | 40 | 180 | 5 | 10 | 0.5 | 50 | 5 |
| 2N5401 | 150 | 160 | 5 | 0.6 | 60 | 240 | 5 | 10 | 0.5 | 50 | 5 |
| KSA709 | 150 | 160 | 8 | 0.7 | 40 | 400 | 2 | 50 | 0.4 | 200 | 20 |
| MPSA93 | 200 | 200 | 5 | – | 40 | – | 10 | 10 | 0.5 | 20 | 2 |
| KSP93 | 200 | 200 | 5 | 0.5 | 40 | – | 10 | 10 | 0.5 | 20 | 2 |
| 2N6518 | 250 | 250 | 5 | 0.5 | 50 | 300 | 10 | 30 | 1 | 50 | 5 |
| KSP92 | 300 | 300 | 5 | 0.5 | 40 | – | 10 | 10 | 0.5 | 20 | 2 |
| MPSA92 | 300 | 300 | 5 | 0.5 | 40 | – | 10 | 10 | 0.5 | 20 | 2 |
| 2N6519 | 300 | 300 | 5 | 0.5 | 45 | 270 | 10 | 30 | 1 | 50 | 5 |
| 2N6520 | 350 | 350 | 5 | 0.5 | 30 | 200 | 10 | 30 | 1 | 50 | 5 |
| KSP94 | 400 | 400 | 6 | 0.3 | 50 | 300 | 10 | 10 | 0.75 | 50 | 5 |
| KSA1625 | 400 | 400 | 7 | 0.5 | 40 | 200 | 5 | 50 | 1 | 100 | 10 |
| TO-92L NPN Configuration | | | | | | | | | | | |
| KSC2500 | 10 | 30 | 6 | 2 | 140 | 600 | 1 | 500 | 0.5 | 2000 | 50 |
| KSC2316 | 120 | 120 | 5 | 0.8 | 80 | 240 | 5 | 100 | 1 | 500 | 50 |
| KSC2310 | 150 | 200 | 5 | 0.05 | 40 | 240 | 5 | 10 | 0.5 | 10 | 1 |
| KSC2383 | 160 | 160 | 6 | 1 | 60 | 320 | 5 | 200 | 1.5 | 500 | 50 |
| KSC2330 | 300 | 300 | 7 | 0.1 | 40 | 240 | 10 | 20 | 0.5 | 10 | 1 |
| KSC2330A | 400 | 400 | 7 | 0.1 | 40 | 80 | 10 | 20 | 0.5 | 10 | 1 |
| TO-92L PNP Configuration | | | | | | | | | | | |
| KSA928A | 30 | 30 | 5 | 2 | 100 | 320 | 2 | 500 | 2 | 1500 | 30 |
| KSA1281 | 50 | 50 | 5 | 2 | 70 | 240 | 2 | 500 | 0.5 | 1000 | 0.05 |
| KSA931 | 60 | 80 | 8 | 0.7 | 40 | 240 | 2 | 50 | 0.7 | 500 | 50 |
| KSA916 | 120 | 120 | 5 | 0.8 | 80 | 240 | 5 | 100 | 1 | 500 | 50 |
| KSA1013 | 160 | 160 | 6 | 1 | 60 | 320 | 5 | 200 | 1.5 | 500 | 50 |
| KSA1370 | 200 | 200 | 5 | 0.1 | 100 | 320 | 10 | 10 | 0.6 | 20 | 2 |

Small Signal Transistors – General Purpose Transistors (Continued)

| Part Number | V_{CE0} (V) | V_{CBO} (V) | V_{EBO} (V) | I_C | h_{FE} | | | | Saturation Voltage | | | |
|---|---------------|---------------|---------------|---------|----------|------|----------------|--------------|--------------------|--------------|--------------|--|
| | | | | Max (A) | Min | Max | @ V_{CE} (V) | @ I_C (mA) | $V_{CE(sat)}$ (V) | @ I_C (mA) | @ I_B (mA) | |
| TO-92S NPN Configuration | | | | | | | | | | | | |
| KSC2710 | 20 | 40 | 5 | 0.5 | 40 | 400 | 1 | 100 | 0.4 | 500 | 50 | |
| KSC3488 | 25 | 30 | 5 | 0.3 | 70 | 400 | 1 | 50 | 0.4 | 300 | 30 | |
| KSD1020 | 25 | 30 | 5 | 0.7 | 70 | 400 | 1 | 100 | 0.4 | 700 | 70 | |
| KSD1021 | 30 | 40 | 5 | 1 | 70 | 400 | 1 | 100 | 0.5 | 1000 | 100 | |
| KSC2785 | 50 | 60 | 5 | 0.15 | 70 | 700 | 6 | 1 | 0.3 | 100 | 10 | |
| KSC2784 | 120 | 120 | 5 | 0.05 | 200 | 1200 | 6 | 1 | 0.3 | 10 | 1 | |
| TO-92S PNP Configuration | | | | | | | | | | | | |
| KSA1150 | 20 | 40 | 5 | 0.5 | 40 | 400 | 1 | 100 | 0.4 | 500 | 50 | |
| KSA1378 | 25 | 30 | 5 | 0.3 | 70 | 400 | 1 | 50 | 0.6 | 300 | 30 | |
| KSB810 | 25 | 30 | 5 | 0.7 | 70 | 400 | 1 | 100 | 0.4 | 700 | 70 | |
| KSB811 | 25 | 30 | 5 | 1 | 70 | 400 | 1 | 100 | 0.5 | 1000 | 100 | |
| KSA1175 | 50 | 60 | 5 | 0.15 | 40 | 700 | 6 | 1 | 0.3 | 100 | 10 | |
| KSA1174 | 120 | 120 | 5 | 0.05 | 200 | 800 | 6 | 1 | 0.3 | 10 | 1 | |
| TO-92 TO-92L NPN Configuration | | | | | | | | | | | | |
| KSC2328A | 30 | 30 | 5 | 2 | 100 | 320 | 2 | 500 | 2 | 1500 | 30 | |
| KSC2331 | 60 | 80 | 8 | 0.7 | 40 | 240 | 2 | 50 | 0.7 | 500 | 50 | |
| TO-92 TO-92L PNP Configuration | | | | | | | | | | | | |
| KSA910 | 150 | 150 | 5 | 0.05 | 40 | 240 | 5 | 10 | 0.8 | 10 | 1 | |

Small Signal Transistors – Hybrid Transistors

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | h _{FE} | | | | Saturation Voltage | | | |
|---|----------------------|----------------------|----------------------|----------------|-----------------|-----|----------------------|----------------------|--------------------------|----------------------|----------------------|--|
| | | | | Max (A) | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) | |
| SC70 NPN Configuration | | | | | | | | | | | | |
| FFB3904 | 40 | 60 | 6 | 0.2 | 100 | 300 | 1 | 10 | 0.3 | 50 | 5 | |
| FFB2222A | 40 | 75 | 5 | 0.5 | 100 | 300 | 10 | 150 | 1 | 500 | 50 | |
| BC847S | 45 | 50 | 6 | 0.2 | 110 | 630 | 5 | 2 | 0.65 | 100 | 5 | |
| SC70 NPN PNP Configuration | | | | | | | | | | | | |
| FFB2227A | 30 | 60 | 5 | 0.5 | 100 | – | 10 | 150 | 1.4 | 300 | 30 | |
| FFB3946 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.25 | 10 | 1 | |
| SC70 PNP Configuration | | | | | | | | | | | | |
| FFB3906 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.4 | 50 | 5 | |
| BC857S | 45 | 50 | 5 | 0.2 | 125 | 630 | 5 | 2 | 0.65 | 100 | 5 | |
| FFB2907A | 60 | 60 | 5 | 0.6 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 | |
| SOIC NPN Configuration | | | | | | | | | | | | |
| MMPQ2222 | 30 | 60 | 5 | 0.5 | 75 | – | 10 | 10 | 0.4 | 150 | 15 | |
| MMPQ3904 | 40 | 60 | 6 | 0.2 | 75 | – | 1 | 10 | 0.3 | 50 | 5 | |
| MMPQ2222A | 40 | 75 | 5 | 0.5 | 100 | 300 | 10 | 150 | 1 | 500 | 50 | |
| FTM3725 | 40 | 60 | 6 | 1.2 | 60 | 180 | 1 | 100 | 0.26 | 100 | 10 | |
| SOIC NPN PNP Configuration | | | | | | | | | | | | |
| MMPQ6700 | 40 | 40 | 5 | 0.2 | 70 | – | 1 | 10 | 0.25 | 10 | 1 | |
| SOIC PNP Configuration | | | | | | | | | | | | |
| MMPQ3906 | 40 | 40 | 5 | 0.2 | 75 | – | 1 | 10 | 0.4 | 50 | 5 | |
| MMPQ2907 | 40 | 60 | 5 | 0.6 | 100 | 300 | 10 | 150 | 1.6 | 300 | 30 | |
| MMPQ2907A | 60 | 60 | 5 | 0.6 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 | |
| SOT-563F PNP Configuration | | | | | | | | | | | | |
| FJYF2906 | 40 | 40 | 5 | 0.15 | 80 | 300 | 1 | 1 | 0.3 | 10 | 1 | |
| SuperSOT NPN Configuration | | | | | | | | | | | | |
| FMBA14 | 30 | 30 | 10 | 1.2 | 20000 | – | 5 | 100 | 1.5 | 100 | 0.1 | |
| FMB3904 | 40 | 60 | 6 | 0.2 | 100 | 300 | 1 | 10 | 0.3 | 50 | 5 | |
| FMB2222A | 40 | 75 | 5 | 0.5 | 100 | 300 | 10 | 150 | 1 | 500 | 50 | |
| FMB100 | 45 | 75 | 6 | 0.5 | 100 | 450 | 1 | 10 | 0.4 | 200 | 20 | |
| FMBA06 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 100 | 0.25 | 100 | 10 | |
| FMB5551 | 160 | 180 | 6 | 0.1 | 80 | 250 | 5 | 10 | 0.15 | 10 | 1 | |
| SuperSOT NPN PNP Configuration | | | | | | | | | | | | |
| FMB2227A | 30 | 60 | 5 | 0.5 | 100 | – | 10 | 150 | 1.4 | 300 | 30 | |
| FMB3946 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.25 | 10 | 1 | |

Small Signal Transistors – Hybrid Transistors (Continued)

| Part Number | V_{CE0} (V) | V_{CBO} (V) | V_{EBO} (V) | I_C | h_{FE} | | | | Saturation Voltage | | |
|-----------------------------------|---------------|---------------|---------------|---------|----------|-----|----------------|--------------|----------------------|--------------|--------------|
| | | | | Max (A) | Min | Max | @ V_{CE} (V) | @ I_C (mA) | $V_{CE}^{(sat)}$ (V) | @ I_C (mA) | @ I_B (mA) |
| SuperSOT PNP Configuration | | | | | | | | | | | |
| FMBS549 | 30 | 35 | 5 | 1 | 100 | 300 | 2 | 500 | 0.75 | 2000 | 200 |
| FMB3906 | 40 | 40 | 5 | 0.2 | 100 | 300 | 1 | 10 | 0.4 | 50 | 5 |
| FMB857B | 45 | 50 | 5 | 0.1 | 220 | 475 | 5 | 2 | 0.3 | 10 | 0.5 |
| FMB200 | 45 | 60 | 6 | 0.5 | 100 | 450 | 1 | 10 | 0.4 | 200 | 20 |
| FMB2907A | 60 | 60 | 5 | 0.6 | 100 | 300 | 10 | 150 | 1.6 | 500 | 50 |
| FMBA56 | 80 | 80 | 4 | 0.5 | 100 | – | 1 | 100 | 0.25 | 100 | 10 |

Small Signal Transistors – RF Amplifier Transistors

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | f _T (MHz) | h _{FE} | | | | Saturation Voltage | | |
|---------------------------------|----------------------|----------------------|----------------------|----------------|-------------------------|-----------------|-----|----------------------|----------------------|-----------------------------|----------------------|----------------------|
| | | | | Max (A) | | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| SOT-23 NPN Configuration | | | | | | | | | | | | |
| KST5179 | 12 | 20 | 2 | 0.05 | 900 | 25 | – | 1 | 3 | 0.4 | 10 | 1 |
| MMBT5179 | 12 | 20 | 2 | 0.05 | 900 | 25 | 250 | 1 | 3 | 0.4 | 10 | 1 |
| MMBT918 | 15 | 30 | 3 | 0.05 | 600 | 20 | – | 1 | 3 | 0.4 | 10 | 1 |
| KSC2757 | 15 | 30 | 5 | 0.05 | 800 | 60 | 240 | 10 | 5 | 0.5 | 10 | 1 |
| MMBT5770 | 15 | 30 | 4 | 0.09 | – | 50 | 200 | 10 | 8 | 0.4 | 10 | 1 |
| KSC2223 | 20 | 30 | 4 | 0.02 | 400 | 40 | 180 | 6 | 1 | 0.3 | 10 | 1 |
| KSC2756 | 20 | 30 | 4 | 0.03 | 500 | 60 | 240 | 10 | 5 | 0.5 | 10 | 1 |
| KSC3123 | 20 | 30 | 3 | 0.05 | 900 | 60 | 240 | 10 | 5 | – | – | – |
| KST10 | 25 | 30 | 3 | – | 650 | 60 | – | 10 | 4 | 0.5 | 4 | 0.4 |
| MMBTH10 | 25 | 30 | 3 | 0.05 | 650 | 60 | – | 10 | 4 | 0.5 | 4 | 0.4 |
| MMBTH11 | 25 | 30 | 3 | 0.05 | 650 | 60 | – | 10 | 4 | 0.5 | 4 | 0.4 |
| KSC2755 | 30 | 30 | 5 | 0.02 | 400 | 60 | 240 | 10 | 3 | – | – | – |
| KSC2715 | 30 | 35 | 4 | 0.05 | 100 | 40 | 240 | 12 | 2 | 0.4 | 10 | 1 |
| MMBTH24 | 30 | 40 | 4 | 0.05 | 400 | 30 | – | 10 | 8 | – | – | – |
| KST24 | 30 | 40 | 4 | 0.1 | 400 | 30 | – | 10 | 8 | – | – | – |
| MMBTH34 | 40 | 40 | 4 | – | 500 | 40 | – | 15 | 7 | – | – | – |
| MMBTH1ORG | 40 | 40 | 4 | 0.045 | – | 50 | 120 | 6 | 1 | 0.2 | 10 | 5 |
| SOT-23 PNP Configuration | | | | | | | | | | | | |
| MMBTH81 | 20 | 20 | 3 | 0.05 | 600 | 60 | – | 10 | 5 | 0.5 | 5 | 0.5 |
| TO-92 NPN Configuration | | | | | | | | | | | | |
| 2N3663 | 12 | 30 | 3 | 0.05 | 700 | 20 | – | 10 | 8 | – | – | – |
| KSP5179 | 12 | 20 | 2 | 0.05 | 900 | 25 | 250 | 1 | 3 | 0.4 | 10 | 1 |
| MPS5179 | 12 | 20 | 2 | 0.05 | 900 | 25 | 250 | 1 | 3 | 0.4 | 10 | 1 |
| PN5179 | 12 | 20 | 2 | 0.05 | 900 | 25 | 250 | 1 | 3 | 0.4 | 10 | 1 |
| 2N5770 | 15 | 30 | 4 | 0.05 | – | 50 | 200 | 10 | 8 | 0.4 | 10 | 1 |
| PN3563 | 15 | 30 | 2 | 0.05 | 600 | 20 | 200 | 10 | 8 | – | – | – |
| PN918 | 15 | 30 | 3 | 0.05 | 600 | 20 | – | 1 | 3 | 0.4 | 10 | 1 |
| SS9018 | 15 | 30 | 5 | 0.05 | 700 | 28 | 198 | 5 | 1 | 0.5 | 10 | 1 |
| KSC1730 | 15 | 30 | 5 | 0.05 | 800 | 40 | 240 | 10 | 5 | 0.5 | 10 | 1 |
| BF494 | 20 | 30 | 5 | – | – | 65 | 220 | 10 | 1 | – | – | – |
| KSC1674 | 20 | 30 | 4 | 0.02 | 400 | 40 | 240 | 6 | 1 | 0.3 | 10 | 1 |
| KSC1187 | 20 | 30 | 4 | 0.03 | 400 | 40 | 240 | 10 | 2 | – | – | – |
| BF199 | 25 | 40 | 4 | – | – | 38 | – | 10 | 7 | 0.2 | 10 | 5 |
| KSP10 | 25 | 30 | 3 | – | 650 | 60 | – | 10 | 4 | 0.5 | 4 | 0.4 |

Small Signal Transistors – RF Amplifier Transistors (Continued)

| Part Number | V _{CEO} (V) | V _{CBO} (V) | V _{EBO} (V) | I _C | f _T (MHz) | h _{FE} | | | | Saturation Voltage | | |
|---------------------------------|----------------------|----------------------|----------------------|----------------|-------------------------|-----------------|-----|----------------------|----------------------|-----------------------------|----------------------|----------------------|
| | | | | Max (A) | | Min | Max | @V _{CE} (V) | @I _C (mA) | V _{CE(sat)} (V) | @I _C (mA) | @I _B (mA) |
| KSC388 | 25 | 30 | 4 | 0.05 | 300 | 20 | 200 | 12.5 | 12 | 0.2 | 15 | 1.5 |
| FPNH10 | 25 | 30 | 3 | 0.05 | 650 | 60 | – | 10 | 4 | 0.5 | 4 | 0.4 |
| MPSH10 | 25 | 30 | 3 | 0.05 | 650 | 60 | – | 10 | 4 | 0.5 | 4 | 0.4 |
| MPSH11 | 25 | 30 | 3 | 0.05 | 650 | 60 | – | 10 | 4 | 0.5 | 4 | 0.4 |
| KSC1393 | 30 | 30 | 4 | 0.02 | 400 | 40 | 180 | 10 | 2 | – | – | – |
| KSC838 | 30 | 35 | 4 | 0.03 | 100 | 40 | 240 | 12 | 2 | 0.4 | 10 | 1 |
| KSC1675 | 30 | 50 | 5 | 0.05 | 150 | 40 | 240 | 6 | 1 | 0.3 | 10 | 1 |
| MPSH24 | 30 | 40 | 4 | 0.05 | 400 | 30 | – | 10 | 8 | – | – | – |
| KSP24 | 30 | 40 | 4 | 0.1 | 400 | 30 | – | 10 | 8 | – | – | – |
| BF240 | 40 | 40 | 4 | – | – | 65 | 225 | 10 | 1 | 0.65 | 1 | – |
| MPSH34 | 40 | 40 | 4 | – | 500 | 40 | – | 15 | 7 | – | – | – |
| TO-92 PNP Configuration | | | | | | | | | | | | |
| MPSH81 | 20 | 20 | 3 | 0.05 | 600 | 60 | – | 10 | 5 | 0.5 | 5 | 0.5 |
| TO-92S NPN Configuration | | | | | | | | | | | | |
| KSC2786 | 20 | 30 | 4 | 0.02 | 400 | 40 | 240 | 6 | 1 | 0.3 | 10 | 1 |
| KSC2669 | 30 | 35 | 4 | 0.03 | 100 | 40 | 240 | 12 | 2 | 0.4 | 10 | 1 |
| KSC2787 | 30 | 50 | 5 | 0.05 | 150 | 40 | 240 | 6 | 1 | 0.3 | 10 | 1 |

JFETs

| Part Number | BV _{GDS} (V) | P _D Power Dissipation (mW) | V _{GS} (off) | | | | | IDSS | | | GFS | | | R _{DS} (Ω) | I _D (off) (μA) |
|--------------------------|-----------------------|---------------------------------------|-----------------------|---------|---------|-----------------------|-----------------------|----------|----------|-----------------------|----------|----------|----------|---------------------|---------------------------|
| | | | Min (V) | Typ (V) | Max (V) | @ I _D (μA) | @ V _{DS} (V) | Min (mA) | Max (mA) | @ V _{DS} (V) | Min (mS) | Typ (mS) | Max (mS) | | |
| SOT-223 N-Channel | | | | | | | | | | | | | | | |
| JFT105 | 25 | 1000 | 4.5 | – | 10 | 1 | 5 | 500 | – | 15 | – | – | – | 3 | 0.003 |
| SOT-23 N-Channel | | | | | | | | | | | | | | | |
| KSK595H | 20 | 100 | – | 0.6 | 1.5 | 1 | 5 | 0.15 | 0.35 | 5 | – | – | – | – | – |
| MMBF5484 | 25 | 225 | 0.3 | – | 3 | 0.01 | 15 | 1 | 5 | 15 | 3 | – | 6 | – | – |
| MMBFJ210 | 25 | – | 1 | – | 3 | 0.001 | 15 | 2 | 15 | 15 | 4 | – | 12 | – | – |
| MMBF5485 | 25 | 225 | 0.5 | – | 4 | 0.01 | 15 | 4 | 10 | 15 | 3.5 | – | 7 | – | – |
| MMBFJ309 | 25 | 350 | 1 | – | 4 | 0.001 | 10 | 12 | 30 | 10 | 10 | – | 20 | – | – |
| MMBFJ211 | 25 | 225 | 2.5 | – | 4.5 | 0.001 | 15 | 7 | 20 | 15 | 6 | – | 12 | – | – |
| MMBF5457 | 25 | 350 | 0.5 | – | 6 | 0.01 | 15 | 1 | 5 | 15 | 1 | – | 5 | – | – |
| MMBF5486 | 25 | 225 | 2 | – | 6 | 0.01 | 15 | 8 | 20 | 15 | 4 | – | 8 | – | – |
| MMBFJ212 | 25 | 225 | 4 | – | 6 | 0.001 | 15 | 15 | 40 | 15 | 7 | – | 12 | – | – |
| MMBFJ310 | 25 | 350 | 2 | – | 6.5 | 0.001 | 10 | 24 | 60 | 10 | 8 | – | 18 | – | – |
| MMBF5458 | 25 | 350 | 1 | – | 7 | 0.01 | 15 | 2 | 9 | 15 | 1.5 | – | 5.5 | – | – |
| MMBF5459 | 25 | 350 | 2 | – | 8 | 0.01 | 15 | 4 | 16 | 15 | 2 | – | 6 | – | – |
| MMBF4393 | 30 | 350 | 0.5 | – | 3 | 0.001 | 20 | 5 | 30 | 20 | – | – | – | 100 | 0.0001 |
| MMBF4392 | 30 | 350 | 2 | – | 5 | 0.001 | 20 | 25 | 75 | 20 | – | – | – | 60 | 0.0001 |
| MMBF4416 | 30 | 225 | 2.5 | – | 6 | 0.001 | 15 | 0.005 | 0.015 | 15 | – | – | – | – | – |
| MMBF4391 | 30 | 350 | 4 | – | 10 | 0.001 | 20 | 50 | 150 | 20 | – | – | – | 30 | 0.0001 |
| MMBFJ113 | 35 | 350 | 0.5 | – | 3 | 1 | 5 | 2 | – | 15 | – | – | – | 100 | 0.001 |
| MMBFJ112 | 35 | 350 | 1 | – | 5 | 1 | 5 | 5 | – | 15 | – | – | – | 50 | 0.001 |
| MMBF4416A | 35 | 225 | – | – | 6 | 0.001 | 15 | 5 | 15 | 15 | 4.5 | – | 7.5 | – | – |
| MMBFJ111 | 35 | 350 | 3 | – | 10 | 1 | 5 | 20 | – | 15 | – | – | – | 30 | 0.001 |
| BSR57 | 40 | 250 | – | – | – | – | – | 20 | 100 | 15 | – | – | – | – | – |
| MMBFJ201 | 40 | 350 | 0.3 | – | 1.5 | 0.01 | 20 | 0.2 | 1 | 20 | – | – | – | – | – |
| MMBF4117 | 40 | 225 | 0.6 | – | 1.8 | 0.001 | 10 | 0.03 | 0.09 | 10 | 0.07 | – | 0.21 | – | – |
| MMBF5103 | 40 | 350 | 1.2 | – | 2.7 | 0.001 | 15 | 10 | 40 | 15 | 7.5 | – | 15 | – | – |
| MMBF4118 | 40 | 225 | 1 | – | 3 | 0.001 | 10 | 0.08 | 0.24 | 10 | 0.08 | – | 0.25 | – | – |
| MMBFJ202 | 40 | 350 | 0.8 | – | 4 | 0.01 | 20 | 0.9 | 4.5 | 20 | – | – | – | – | – |
| BSR58 | 40 | 250 | 0.8 | – | 4 | 0.001 | 15 | 8 | 80 | 15 | – | – | – | 60 | – |
| MMBF4093 | 40 | 350 | 1 | – | 5 | 0.001 | 20 | 8 | – | 20 | – | – | – | 80 | 0.0002 |
| MMBF4119 | 40 | 225 | 2 | – | 6 | 0.001 | 10 | 0.2 | 0.6 | 10 | 0.1 | – | 0.33 | – | – |
| MMBF4092 | 40 | 350 | 2 | – | 7 | 0.001 | 20 | 15 | – | 20 | – | – | – | 50 | 0.0002 |
| MMBF4091 | 40 | 350 | 5 | – | 10 | 0.001 | 20 | 30 | – | 20 | – | – | – | 30 | 0.0002 |
| BSR56 | 40 | 250 | 4 | – | 10 | 0.001 | 15 | 50 | – | 15 | – | – | – | 25 | – |

DISCRETE POWER

JFETs (Continued)

| Part Number | BV _{GDS} (V) | P _D Power Dissipation (mW) | V _{GS} (off) | | | | | IDSS | | | GFS | | | R _{DS} (Ω) | I _D (off) (μ A) | |
|---------------------------|--------------------------|--|-----------------------|------------|------------|--------------------------------|--------------------------|-------------|-------------|--------------------------|-------------|-------------|-------------|---------------------------------|------------------------------------|--|
| | | | Min (V) | Typ (V) | Max (V) | @ I _D (μ A) | @ V _{DS} (V) | Min (mA) | Max (mA) | @ V _{DS} (V) | Min (mS) | Typ (mS) | Max (mS) | | | |
| SOT-23 P-Channel | | | | | | | | | | | | | | | | |
| MMBFJ270 | 30 | 225 | 0.5 | – | 2 | 0.001 | 15 | 2 | 15 | 15 | 6000 | – | 15000 | – | – | |
| MMBFJ177 | 30 | 225 | 0.8 | – | 2.5 | 0.01 | 15 | 1.5 | 20 | 15 | – | – | – | 300 | – | |
| MMBFJ176 | 30 | 225 | 1 | – | 4 | 0.01 | 15 | 2 | 25 | 15 | – | – | – | 250 | – | |
| MMBFJ271 | 30 | 225 | 1.5 | – | 4.5 | 0.001 | 15 | 6 | 50 | 15 | 8000 | – | 18000 | – | – | |
| MMBFJ175 | 30 | 225 | 3 | – | 6 | 0.01 | 15 | 7 | 60 | 15 | – | – | – | 125 | – | |
| MMBF5460 | 40 | 225 | 0.75 | – | 6 | 1 | 15 | 1 | 5 | 15 | 1 | – | 4 | – | – | |
| MMBF5461 | 40 | 225 | 1 | – | 7.5 | 1 | 15 | 2 | 9 | 15 | 1.5 | – | 5 | – | – | |
| MMBF5462 | 40 | 225 | 1.8 | – | 9 | 1 | 15 | 4 | 16 | 15 | 2 | – | 6 | – | – | |
| SOT-323 N-Channel | | | | | | | | | | | | | | | | |
| FJX597JH | 20 | 100 | – | 0.6 | 1.5 | 1 | 5 | 0.15 | 0.35 | 5 | – | – | – | – | – | |
| SOT-623F N-Channel | | | | | | | | | | | | | | | | |
| FJZ594J | 20 | 100 | – | 0.6 | 1.5 | 1 | 5 | 0.15 | 0.35 | 5 | – | – | – | – | – | |
| SuperSOT N-Channel | | | | | | | | | | | | | | | | |
| MMBF5434 | 25 | 350 | 1 | – | 4 | 0.003 | 5 | 30 | – | 15 | – | – | – | – | – | |
| MMBFJ108 | 25 | 350 | 3 | – | 10 | 0.01 | 15 | 80 | – | 15 | – | – | – | 8 | – | |
| TO-92 N-Channel | | | | | | | | | | | | | | | | |
| FJN598J | 20 | 150 | – | 0.6 | 1.5 | 1 | 5 | 0.1 | 0.35 | 5 | – | – | – | – | – | |
| J210 | 25 | 350 | – | – | – | – | – | 2 | 15 | 15 | 4 | – | 12 | – | – | |
| J300 | 25 | 350 | – | – | – | – | – | 6 | 30 | 10 | – | – | – | – | – | |
| 2N5555 | 25 | 350 | – | – | – | – | – | 15 | – | 15 | – | – | – | 150 | 0.01 | |
| 2N5484 | 25 | 350 | 0.3 | – | 3 | 0.01 | 15 | 1 | 5 | 15 | 3 | – | 6 | – | – | |
| 2N5485 | 25 | 350 | 0.5 | – | 4 | 0.01 | 15 | 4 | 10 | 15 | 3.5 | – | 7 | – | – | |
| J110 | 25 | 625 | 0.5 | – | 4 | 0.01 | 15 | 10 | – | 15 | – | – | – | 18 | – | |
| J309 | 25 | 625 | 1 | – | 4 | 0.001 | 10 | 12 | 30 | 10 | 10 | – | 20 | – | – | |
| PN5434 | 25 | 350 | 1 | – | 4 | 0.003 | 5 | 30 | – | 15 | – | – | – | 10 | 0.0002 | |
| J211 | 25 | 350 | 2.5 | – | 4.5 | 0.001 | 15 | 7 | 20 | 15 | 6 | – | 12 | – | – | |
| J107 | 25 | 625 | 0.5 | – | 4.5 | 1 | 5 | 100 | – | 15 | – | – | – | 8 | 0.003 | |
| 2N5457 | 25 | 625 | 0.5 | – | 6 | 0.01 | 15 | 1 | 5 | 15 | 1 | – | 5 | – | – | |
| 2N5486 | 25 | 350 | 2 | – | 6 | 0.01 | 15 | 8 | 20 | 15 | 4 | – | 8 | – | – | |
| J212 | 25 | 350 | 4 | – | 6 | 0.001 | 15 | 15 | 40 | 15 | 7 | – | 12 | – | – | |
| J109 | 25 | 625 | 2 | – | 6 | 0.01 | 15 | 40 | – | 15 | – | – | – | 12 | – | |
| J106 | 25 | 625 | 2 | – | 6 | 1 | 5 | 200 | – | 15 | – | – | – | 6 | 0.003 | |
| J310 | 25 | 625 | 2 | – | 6.5 | 0.001 | 10 | 24 | 60 | 10 | 8 | – | 18 | – | – | |
| 2N5458 | 25 | 625 | 1 | – | 7 | 0.01 | 15 | 2 | 9 | 15 | 1.5 | – | 5.5 | – | – | |
| 2N3819 | 25 | 350 | – | – | 8 | 0.002 | 15 | 2 | 20 | 15 | – | – | – | – | – | |

JFETs (Continued)

| Part Number | BV _{GDS} (V) | P _D Power Dissipation (mW) | V _{GS} (off) | | | | | IDSS | | | GFS | | | R _{DS} (Ω) | I _D (off) (μA) |
|-------------|--------------------------|--|-----------------------|------------|------------|--------------------------|--------------------------|-------------|-------------|--------------------------|-------------|-------------|-------------|------------------------|------------------------------|
| | | | Min (V) | Typ (V) | Max (V) | @ I _D (μA) | @ V _{DS} (V) | Min (mA) | Max (mA) | @ V _{DS} (V) | Min (mS) | Typ (mS) | Max (mS) | | |
| MPF102 | 25 | 350 | – | – | 8 | 0.002 | 15 | 2 | 20 | 15 | 2 | – | 7.5 | – | – |
| 2N5459 | 25 | 625 | 2 | – | 8 | 0.01 | 15 | 4 | 16 | 15 | 2 | – | 6 | – | – |
| J108 | 25 | 625 | 3 | – | 10 | 0.01 | 15 | 80 | – | 15 | – | – | – | 8 | – |
| PN5432 | 25 | 350 | 4 | – | 10 | 0.003 | 5 | 150 | – | 15 | – | – | – | 5 | 0.0002 |
| J105 | 25 | 625 | 4.5 | – | 10 | 1 | 5 | 500 | – | 15 | – | – | – | 3 | 0.003 |
| BF246B | 25 | 625 | 0.6 | – | 14.5 | 0.01 | 15 | 60 | 140 | 15 | 8 | – | – | – | – |
| BF247A | 25 | 625 | 0.6 | – | 14.5 | 0.01 | 15 | 60 | 140 | 15 | 8 | – | – | – | – |
| PF5301-2 | 30 | – | 1.7 | – | 3 | 0.001 | 10 | 0.03 | 0.5 | 10 | 0.07 | – | 0.3 | – | – |
| J305 | 30 | 350 | 0.5 | – | 3 | 0.001 | 15 | 1 | 8 | 15 | – | – | – | – | – |
| 2N5953 | 30 | – | 0.8 | – | 3 | 0.1 | 15 | 2.5 | 5 | 15 | – | – | – | – | – |
| PN4393 | 30 | 625 | 0.5 | – | 3 | 0.001 | 20 | 5 | 30 | 20 | – | – | – | 100 | 0.0001 |
| 2N5952 | 30 | 350 | 1.3 | – | 3.5 | 0.1 | 15 | 4 | 8 | 15 | 2 | – | 6.5 | – | – |
| PN4302 | 30 | 625 | – | – | 4 | 0.01 | 20 | 0.5 | 5 | 20 | 1 | – | – | – | – |
| 2N5246 | 30 | 350 | 0.5 | – | 4 | 0.01 | 15 | 1.5 | 7 | 15 | – | – | – | – | – |
| PN4861 | 30 | 625 | 0.8 | – | 4 | 0.001 | 15 | 8 | 80 | 15 | – | – | – | 60 | 0.0003 |
| TIS75 | 30 | 350 | 0.8 | – | 4 | 0.004 | 20 | 8 | 80 | 15 | – | – | – | 60 | 0.002 |
| 2N5951 | 30 | 350 | 2 | – | 5 | 0.1 | 15 | 7 | 13 | 15 | – | – | – | – | – |
| PN4392 | 30 | 625 | 2 | – | 5 | 0.001 | 20 | 25 | 75 | 20 | – | – | – | 60 | 0.0001 |
| PN4303 | 30 | 625 | – | – | 6 | 0.01 | 20 | 4 | 10 | 20 | 2 | – | – | – | – |
| 2N5245 | 30 | 350 | 1 | – | 6 | 0.01 | 15 | 5 | 15 | 15 | 4.5 | – | 11 | – | – |
| J304 | 30 | 350 | 2 | – | 6 | 0.001 | 15 | 5 | 15 | 15 | – | – | – | – | – |
| PN4416 | 30 | 350 | 2.5 | – | 6 | 0.001 | 15 | 5 | 15 | 15 | – | – | – | – | – |
| 2N5950 | 30 | 350 | 2.5 | – | 6 | 0.1 | 15 | 10 | 15 | 15 | – | – | – | – | – |
| TIS74 | 30 | 350 | 2 | – | 6 | 0.004 | 15 | 20 | 100 | 15 | – | – | – | 40 | 0.002 |
| BF256A | 30 | 350 | 0.5 | – | 7.5 | 0.2 | 15 | 3 | 7 | 15 | 4.5 | – | – | – | – |
| BF256B | 30 | 350 | 0.5 | – | 7.5 | 0.2 | 15 | 6 | 13 | 15 | 4.5 | – | – | – | – |
| BF256C | 30 | 350 | 0.5 | – | 7.5 | 0.2 | 15 | 11 | 18 | 15 | 4.5 | – | – | – | – |
| BF244A | 30 | 350 | 0.5 | – | 8 | 0.01 | 15 | 2 | 6.5 | 15 | – | – | – | – | – |
| BF245A | 30 | 350 | 0.5 | – | 8 | 0.01 | 15 | 2 | 6.5 | 15 | 3 | – | 6.5 | – | – |
| BF244B | 30 | 350 | 0.5 | – | 8 | 0.01 | 15 | 6 | 15 | 15 | – | – | – | – | – |
| BF245B | 30 | 350 | 0.5 | – | 8 | 0.01 | 15 | 6 | 15 | 15 | 3 | – | 6.5 | – | – |
| 2N5247 | 30 | 350 | 1 | – | 8 | 0.01 | 15 | 8 | 24 | 15 | – | – | – | – | – |
| BF244C | 30 | 350 | 0.5 | – | 8 | 0.01 | 15 | 12 | 25 | 15 | – | – | – | – | – |
| BF245C | 30 | 350 | 0.5 | – | 8 | 0.01 | 15 | 12 | 25 | 15 | 3 | – | 6.5 | – | – |
| 2N5639 | 30 | 625 | – | – | 8 | – | – | 25 | – | 20 | – | – | – | 60 | 0.001 |
| PN4391 | 30 | 625 | 4 | – | 10 | 0.001 | 20 | 50 | 150 | 20 | – | – | – | 30 | 0.0001 |

JFETs (Continued)

| Part Number | BV _{GDS} (V) | P _D Power Dissipation (mW) | V _{GS} (off) | | | | | IDSS | | | GFS | | | R _{DS} (Ω) | I _D (off) (μA) |
|-------------------------|--------------------------|--|-----------------------|------------|------------|--------------------------|--------------------------|-------------|-------------|--------------------------|-------------|-------------|-------------|------------------------|------------------------------|
| | | | Min (V) | Typ (V) | Max (V) | @ I _D (μA) | @ V _{DS} (V) | Min (mA) | Max (mA) | @ V _{DS} (V) | Min (mS) | Typ (mS) | Max (mS) | | |
| 2N5638 | 30 | 625 | – | – | 12 | – | – | 50 | – | 20 | – | – | – | 30 | 0.001 |
| BF246A | 30 | 625 | 0.6 | – | 14.5 | 0.01 | 15 | 30 | 80 | 15 | 8 | – | – | – | – |
| J113 | 35 | 625 | 0.5 | – | 3 | 1 | 5 | 2 | – | 15 | – | – | – | 100 | 0.001 |
| J112 | 35 | 625 | 1 | – | 5 | 1 | 5 | 5 | – | 15 | – | – | – | 50 | 0.001 |
| J111 | 35 | 625 | 3 | – | 10 | 1 | 5 | 20 | – | 15 | – | – | – | 30 | 0.001 |
| J201 | 40 | 625 | 0.3 | – | 1.5 | 0.01 | 20 | 0.2 | 1 | 20 | – | – | – | – | – |
| PF5102 | 40 | 625 | 0.7 | – | 1.6 | 0.001 | 15 | 4 | 20 | 15 | 3.5 | – | – | – | – |
| PN4117 | 40 | 350 | 0.6 | – | 1.8 | 0.001 | 10 | 0.03 | 0.09 | 10 | 0.07 | – | 0.21 | – | – |
| PN4117A | 40 | 350 | 0.6 | – | 1.8 | 0.001 | 10 | 0.03 | 0.09 | 10 | 0.07 | – | 0.21 | – | – |
| PF5103 | 40 | 625 | 1.2 | – | 2.7 | 0.001 | 15 | 10 | 40 | 15 | 7.5 | – | – | – | – |
| PN4118 | 40 | 350 | 1 | – | 3 | 0.001 | 10 | 0.08 | 0.24 | 10 | 0.08 | – | 0.25 | – | – |
| J202 | 40 | 625 | 0.8 | – | 4 | 0.01 | 20 | 0.9 | 4.5 | 20 | – | – | – | – | – |
| PN4093 | 40 | 625 | 1 | – | 5 | 0.001 | 20 | 8 | – | 20 | – | – | – | 80 | 0.0002 |
| PN4119 | 40 | 350 | 2 | – | 6 | 0.001 | 10 | 0.2 | 0.6 | 10 | 0.1 | – | 0.33 | – | – |
| PN4092 | 40 | 625 | 2 | – | 7 | 0.001 | 20 | 15 | – | 20 | – | – | – | 50 | 0.0002 |
| U1898 | 40 | 625 | 2 | – | 7 | 0.001 | 20 | 15 | – | 20 | – | – | – | 50 | – |
| PN4091 | 40 | 625 | 5 | – | 10 | 0.001 | 20 | 30 | – | 20 | – | – | – | 30 | 0.0002 |
| U1897 | 40 | 625 | 5 | – | 10 | 0.001 | 20 | 30 | – | 20 | – | – | – | 30 | – |
| KSK30 | 50 | 100 | 0.4 | – | 5 | 0.1 | 10 | 0.3 | 6.5 | 10 | – | – | – | – | – |
| TO-92 P-Channel | | | | | | | | | | | | | | | |
| 2N3820 | 20 | 350 | – | – | 8 | 0.01 | 10 | 0.3 | 15 | 10 | 0.8 | – | 5 | – | – |
| J270 | 30 | 350 | 0.5 | – | 2 | 0.001 | 15 | 2 | 15 | 15 | 6 | – | 15 | – | – |
| J177 | 30 | 350 | 0.8 | – | 2.5 | 0.01 | 15 | 1.5 | 20 | 15 | – | – | – | 300 | – |
| J176 | 30 | 350 | 1 | – | 4 | 0.01 | 15 | 2 | 25 | 15 | – | – | – | 250 | – |
| J271 | 30 | 350 | 1.5 | – | 4.5 | 0.001 | 15 | 6 | 50 | 15 | 8 | – | 18 | – | – |
| P1087 | 30 | 350 | – | – | 5 | 1 | 15 | 5 | – | 20 | – | – | – | 150 | 0.01 |
| J175 | 30 | 350 | 3 | – | 6 | 0.01 | 15 | 7 | 60 | 15 | – | – | – | 125 | – |
| P1086 | 30 | 350 | – | – | 10 | 1 | 15 | 10 | – | 20 | – | – | – | 75 | 0.01 |
| J174 | 30 | 350 | 5 | – | 10 | 0.01 | 15 | 20 | 100 | 15 | – | – | – | 85 | – |
| 2N5460 | 40 | 350 | 0.75 | – | 6 | 1 | 15 | 1 | 5 | 15 | 1 | – | 4 | – | – |
| 2N5461 | 40 | 350 | 1 | – | 7.5 | 1 | 15 | 2 | 9 | 15 | 1.5 | – | 5 | – | – |
| 2N5462 | 40 | 350 | 1.8 | – | 9 | 1 | 15 | 4 | 16 | 15 | 2 | – | 6 | – | – |
| TO-92S N-Channel | | | | | | | | | | | | | | | |
| KSK596 | 20 | 100 | – | 0.6 | 1.5 | 1 | 5 | 0.1 | 0.35 | 5 | – | – | – | – | – |

Rectifiers – Fast Recovery Rectifiers

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _F Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) | t _o @125°C Typ (ns) | t _b @125°C Typ (ns) |
|----------------|----------------|----------------------|-------------------------|------------------------|--------------------------|--|--------------------------------|--------------------------------|
| DO-41 | | | | | | | | |
| 1N4933 | Single | 50 | 1 | 1.2 | 150 | 5 | – | – |
| 1N4933GP | Single | 50 | 1 | 1.2 | 150 | 5 | – | – |
| RGP10A | Single | 50 | 1 | 1.3 | 150 | 5 | – | – |
| 1N4934 | Single | 100 | 1 | 1.2 | 150 | 5 | – | – |
| 1N4934GP | Single | 100 | 1 | 1.2 | 150 | 5 | – | – |
| RGP10B | Single | 100 | 1 | 1.3 | 150 | 5 | – | – |
| 1N4935 | Single | 200 | 1 | 1.2 | 150 | 5 | – | – |
| 1N4935GP | Single | 200 | 1 | 1.2 | 150 | 5 | – | – |
| RGP10D | Single | 200 | 1 | 1.3 | 150 | 5 | – | – |
| 1N4936 | Single | 400 | 1 | 1.2 | 150 | 5 | – | – |
| 1N4936GP | Single | 400 | 1 | 1.2 | 150 | 5 | – | – |
| RGP10G | Single | 400 | 1 | 1.3 | 150 | 5 | – | – |
| 1N4937 | Single | 600 | 1 | 1.2 | 150 | 5 | – | – |
| 1N4937GP | Single | 600 | 1 | 1.2 | 150 | 5 | – | – |
| RGP10J | Single | 600 | 1 | 1.3 | 250 | 5 | – | – |
| RGP10K | Single | 800 | 1 | 1.3 | 500 | 5 | – | – |
| RGP10M | Single | 1000 | 1 | 1.3 | 500 | 5 | – | – |
| SMA | | | | | | | | |
| RGF1A | Single | 50 | 1 | 1.3 | 150 | 5 | – | – |
| RS1A | Single | 50 | 1 | 1.3 | 150 | 5 | – | – |
| RGF1B | Single | 100 | 1 | 1.3 | 150 | 5 | – | – |
| RS1B | Single | 100 | 1 | 1.3 | 150 | 5 | – | – |
| RGF1D | Single | 200 | 1 | 1.3 | 150 | 5 | – | – |
| RS1D | Single | 200 | 1 | 1.3 | 150 | 5 | – | – |
| RGF1G | Single | 400 | 1 | 1.3 | 150 | 5 | – | – |
| RS1G | Single | 400 | 1 | 1.3 | 150 | 5 | – | – |
| RGF1J | Single | 600 | 1 | 1.3 | 250 | 5 | – | – |
| RS1J | Single | 600 | 1 | 1.3 | 250 | 5 | – | – |
| RGF1K | Single | 800 | 1 | 1.3 | 500 | 5 | – | – |
| RS1K | Single | 800 | 1 | 1.3 | 500 | 5 | – | – |
| RGF1M | Single | 1000 | 1 | 1.3 | 500 | 5 | – | – |
| RS1M | Single | 1000 | 1 | 1.3 | 500 | 5 | – | – |
| TO-220F | | | | | | | | |
| FFPF06F20DN | Common Cathode | 200 | 6 | 1.3 | 120 | 3 | – | – |
| FFPF10U30DN | Common Anode | 300 | 10 | 1.3 | 55 | 10 | – | – |

Rectifiers – General Purpose Rectifiers

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _{FM} Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) |
|-----------------|---------------|----------------------|-------------------------|-------------------------|--------------------------|--|
| DO-15 | | | | | | |
| 1N5391 | Single | 50 | 1.5 | 1.4 | – | 5 |
| 1N5392 | Single | 100 | 1.5 | 1.4 | – | 5 |
| 1N5393 | Single | 200 | 1.5 | 1.4 | – | 5 |
| 1N5394 | Single | 300 | 1.5 | 1.4 | – | 5 |
| 1N5395 | Single | 400 | 1.5 | 1.4 | – | 5 |
| 1N5396 | Single | 500 | 1.5 | 1.4 | – | 5 |
| 1N5397 | Single | 600 | 1.5 | 1.4 | – | 5 |
| 1N5398 | Single | 800 | 1.5 | 1.4 | – | 5 |
| 1N5399 | Single | 1000 | 1.5 | 1.4 | – | 5 |
| DO-201AD | | | | | | |
| 1N5400 | Single | 50 | 3 | 1.2 | – | 5 |
| 1N5401 | Single | 100 | 3 | 1.2 | – | 5 |
| 1N5402 | Single | 200 | 3 | 1.2 | – | 5 |
| 1N5403 | Single | 300 | 3 | 1.2 | – | 5 |
| 1N5404 | Single | 400 | 3 | 1.2 | – | 5 |
| 1N5405 | Single | 500 | 3 | 1.2 | – | 5 |
| 1N5406 | Single | 600 | 3 | 1.2 | – | 5 |
| 1N5407 | Single | 800 | 3 | 1.2 | – | 5 |
| 1N5408 | Single | 1000 | 3 | 1.2 | – | 5 |
| DO-41 | | | | | | |
| 1N4001GP | Single | 50 | 1 | 1.1 | – | 5 |
| 1N4001 | Single | 100 | 1 | 1.1 | – | 5 |
| 1N4002GP | Single | 100 | 1 | 1.1 | – | 5 |
| 1N4003GP | Single | 200 | 1 | 1.1 | – | 5 |
| 1N4004 | Single | 400 | 1 | 1.1 | – | 5 |
| 1N4004GP | Single | 400 | 1 | 1.1 | – | 5 |
| 1N4005 | Single | 600 | 1 | 1.1 | – | 5 |
| 1N4005GP | Single | 600 | 1 | 1.1 | – | 5 |
| 1N4006 | Single | 800 | 1 | 1.1 | – | 5 |
| 1N4006GP | Single | 800 | 1 | 1.1 | – | 5 |
| 1N4007 | Single | 1000 | 1 | 1.1 | – | 5 |
| 1N4007GP | Single | 1000 | 1 | 1.1 | – | 5 |
| SMA | | | | | | |
| GF1A | Single | 50 | 1 | 1 | 2000 | 5 |
| ST1A | Single | 50 | 1 | 1.1 | 1800 | 1 |
| GF1B | Single | 100 | 1 | 1 | 2000 | 5 |
| ST1B | Single | 100 | 1 | 1.1 | 1800 | 1 |

Rectifiers – General Purpose Rectifiers (Continued)

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _{FM} Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) |
|-------------|---------------|----------------------|-------------------------|-------------------------|--------------------------|--|
| GF1D | Single | 200 | 1 | 1 | 2000 | 5 |
| S1D | Single | 200 | 1 | 1.1 | 1800 | 1 |
| GF1G | Single | 400 | 1 | 1 | 2000 | 5 |
| S1G | Single | 400 | 1 | 1.1 | 1800 | 1 |
| GF1J | Single | 600 | 1 | 1 | 2000 | 5 |
| S1J | Single | 600 | 1 | 1.1 | 1800 | 1 |
| GF1K | Single | 800 | 1 | 1.2 | 2000 | 5 |
| S1K | Single | 800 | 1 | 1.1 | 1800 | 1 |
| GF1M | Single | 1000 | 1 | 1.2 | 2000 | 5 |
| S1M | Single | 1000 | 1 | 1.1 | 1800 | 1 |
| SMB | | | | | | |
| S2A | Single | 50 | 1.5 | 1.15 | 2000 | 1 |
| S2B | Single | 100 | 1.5 | 1.15 | 2000 | 1 |
| S2D | Single | 200 | 1.5 | 1.15 | 2000 | 1 |
| S2G | Single | 400 | 1.5 | 1.15 | 2000 | 1 |
| S2J | Single | 600 | 1.5 | 1.15 | 2000 | 1 |
| S2K | Single | 800 | 1.5 | 1.15 | 2000 | 1 |
| S2M | Single | 1000 | 1.5 | 1.15 | 2000 | 1 |
| SMC | | | | | | |
| S3A | Single | 50 | 3 | 1.2 | 2500 | 5 |
| S3B | Single | 100 | 3 | 1.2 | 2500 | 5 |
| S3D | Single | 200 | 3 | 1.2 | 2500 | 5 |
| S3G | Single | 400 | 3 | 1.2 | 2500 | 5 |
| S3J | Single | 600 | 3 | 1.2 | 2500 | 5 |
| S3K | Single | 800 | 3 | 1.2 | 2500 | 5 |
| S3M | Single | 1000 | 3 | 1.2 | 2500 | 5 |

Rectifiers – HyperFast Recovery Rectifiers

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _F Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) | t _a @125°C Typ (ns) | t _b @125°C Typ (ns) |
|---------------------|----------------|----------------------|-------------------------|------------------------|--------------------------|--|--------------------------------|--------------------------------|
| TO-220 | | | | | | | | |
| RHRP860 | Single | 600 | 8 | 2.1 | 35 | 100 | 18 | 10 |
| RHRP1560 | Single | 600 | 15 | 2.1 | 40 | 100 | 20 | 15 |
| RHRP3060 | Single | 600 | 30 | 2.1 | 45 | 100 | 22 | 18 |
| RHRP8120 | Single | 1200 | 8 | 3.2 | 70 | 100 | 30 | 20 |
| RHRP15120 | Single | 1200 | 15 | 3.2 | 75 | 100 | 36 | 28 |
| RHRP30120 | Single | 1200 | 30 | 3 | 75 | 250 | 35 | 33 |
| TO-247 | | | | | | | | |
| RHRG1560CC | Common Cathode | 600 | 15 | 1.5 | 60 | 100 | 30 | 17 |
| RHRG3060CC | Common Cathode | 600 | 30 | 2.1 | 45 | 100 | 22 | 18 |
| RHRG3060 | Single | 600 | 30 | 2.1 | 45 | 100 | 22 | 18 |
| RHRG5060 | Single | 600 | 50 | 2.1 | 50 | 250 | 25 | 20 |
| RHRG30120 | Single | 1200 | 30 | 3.2 | 75 | 100 | 48 | 22 |
| RHRG75120 | Single | 1200 | 75 | 3.2 | 100 | 250 | 60 | 25 |
| TO-252(DPAK) | | | | | | | | |
| RHRD660S | Single | 600 | 6 | 2.1 | 35 | 100 | 16 | 8 |

Rectifiers – HyperFast/UltraSoft Recovery (Stealth™ Family) Rectifiers

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _F Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) | t _o @125°C Typ (ns) | t _b @125°C Typ (ns) |
|---------------------------------|----------------|----------------------|-------------------------|------------------------|--------------------------|--|--------------------------------|--------------------------------|
| SOT-227B | | | | | | | | |
| FFT1N30HS60DD | – | 600 | 30 | 2.4 | 35 | 100 | – | – |
| TO-220 | | | | | | | | |
| ISL9K460P3 | Common Cathode | 600 | 4 | 2.4 | 22 | 100 | 15 | 62 |
| ISL9K860P3 | Common Cathode | 600 | 8 | 2.4 | 30 | 100 | 16 | 77 |
| ISL9R460P2 | Single | 600 | 4 | 2.4 | 22 | 100 | 15 | 62 |
| ISL9R860P2 | Single | 600 | 8 | 2.4 | 30 | 100 | 16 | 61 |
| ISL9R1560P2 | Single | 600 | 15 | 2.2 | 40 | 100 | 30 | 60 |
| ISL9R3060P2 | Single | 600 | 30 | 2.4 | 45 | 100 | 38 | 72 |
| ISL9K8120P3 | Common Cathode | 1200 | 8 | 3.3 | 44 | 100 | 47 | 350 |
| ISL9R8120P2 | Single | 1200 | 8 | 3.3 | 44 | 100 | 47 | 350 |
| ISL9R18120P2 | Single | 1200 | 18 | 3.3 | 70 | 100 | – | – |
| TO-220F | | | | | | | | |
| ISL9R1560PF2 | – | 600 | 15 | 2.2 | 40 | 100 | – | – |
| ISL9R860PF2 | Single | 600 | 8 | 2.4 | 25 | 100 | – | – |
| TO-247 | | | | | | | | |
| FFH30US30DN | Single | 300 | 30 | 1.1 | 35 | 100 | – | – |
| ISL9K1560G3 | Common Cathode | 600 | 15 | 2.2 | 30 | 100 | 30 | 60 |
| ISL9K3060G3 | Common Cathode | 600 | 30 | 2.2 | 45 | 100 | 38 | 72 |
| ISL9R1560G2 | Single | 600 | 15 | 2.2 | 40 | 100 | 30 | 60 |
| ISL9R3060G2 | Single | 600 | 30 | 2.4 | 45 | 100 | 38 | 72 |
| ISL9K18120G3 | Common Cathode | 1200 | 18 | 3.3 | 70 | 100 | 60 | 400 |
| ISL9K30120G3 | Common Cathode | 1200 | 30 | 3.3 | 100 | 100 | 65 | 440 |
| ISL9R18120G2 | Single | 1200 | 18 | 3.3 | 70 | 100 | 60 | 400 |
| ISL9R30120G2 | Single | 1200 | 30 | 3.3 | 100 | 100 | 70 | 460 |
| TO-263(D²PAK) | | | | | | | | |
| ISL9R460S3S | Single | 600 | 4 | 2.4 | 22 | 100 | 15 | 62 |
| ISL9R860S3S | Single | 600 | 8 | 2.4 | 30 | 100 | 16 | 61 |
| ISL9R1560S3S | Single | 600 | 15 | 2.2 | 40 | 100 | 30 | 60 |
| ISL9R8120S3S | Single | 1200 | 8 | 3.3 | 44 | 100 | 47 | 350 |
| ISL9R18120S3S | Single | 1200 | 18 | 3.3 | 70 | 100 | 60 | 400 |

Rectifiers – UltraFast Recovery Rectifiers

| Part Number | Configuration | V_{RRM} (V) | I_F (AV) (A) | V_F Max (V) | t_{rr} Max (ns) | I_{RM} or I_R Max (μ A) | $t_a@125^\circ\text{C}$ Typ (ns) | $t_b@125^\circ\text{C}$ Typ (ns) |
|-----------------|---------------|---------------|----------------|---------------|-------------------|----------------------------------|----------------------------------|----------------------------------|
| DO-15 | | | | | | | | |
| EGP20A | Single | 50 | 2 | 0.95 | 50 | 5 | – | – |
| EGP20B | Single | 100 | 2 | 0.95 | 50 | 5 | – | – |
| EGP20C | Single | 150 | 2 | 0.95 | 50 | 5 | – | – |
| EGP20D | Single | 200 | 2 | 0.95 | 50 | 5 | – | – |
| EGP20F | Single | 300 | 2 | 1.25 | 50 | 5 | – | – |
| EGP20G | Single | 400 | 2 | 1.25 | 50 | 5 | – | – |
| EGP20J | Single | 600 | 2 | 1.7 | 75 | 5 | – | – |
| EGP20K | Single | 800 | 2 | 1.7 | 75 | 5 | – | – |
| DO-201AD | | | | | | | | |
| EGP30A | Single | 50 | 3 | 0.95 | 50 | 5 | – | – |
| EGP30B | Single | 100 | 3 | 0.95 | 50 | 5 | – | – |
| EGP30C | Single | 150 | 3 | 0.95 | 50 | 5 | – | – |
| EGP30D | Single | 200 | 3 | 0.95 | 50 | 5 | – | – |
| EGP30F | Single | 300 | 3 | 1.25 | 50 | 5 | – | – |
| EGP30G | Single | 400 | 3 | 1.25 | 50 | 5 | – | – |
| EGP30J | Single | 600 | 3 | 1.7 | 75 | 5 | – | – |
| EGP30K | Single | 800 | 3 | 1.7 | 75 | 5 | – | – |
| DO-41 | | | | | | | | |
| EGP10A | Single | 50 | 1 | 1 | 50 | 5 | – | – |
| UF4001 | Single | 50 | 1 | 1 | 50 | 10 | – | – |
| EGP10B | Single | 100 | 1 | 1 | 50 | 5 | – | – |
| UF4002 | Single | 100 | 1 | 1 | 50 | 10 | – | – |
| EGP10C | Single | 150 | 1 | 1 | 50 | 5 | – | – |
| EGP10D | Single | 200 | 1 | 1 | 50 | 5 | – | – |
| UF4003 | Single | 200 | 1 | 1 | 50 | 10 | – | – |
| EGP10F | Single | 300 | 1 | 1.25 | 50 | 5 | – | – |
| UF4004 | Single | 400 | 1 | 1 | 50 | 10 | – | – |
| EGP10G | Single | 400 | 1 | 1.25 | 50 | 5 | – | – |
| EGP10J | Single | 600 | 1 | 1.7 | 75 | 5 | – | – |
| UF4005 | Single | 600 | 1 | 1.7 | 75 | 10 | – | – |
| EGP10K | Single | 800 | 1 | 1.7 | 75 | 5 | – | – |
| UF4006 | Single | 800 | 1 | 1.7 | 75 | 10 | – | – |
| UF4007 | Single | 1000 | 1 | 1.7 | 75 | 10 | – | – |
| SMA | | | | | | | | |
| ES1A | Single | 50 | 1 | 0.92 | 15 | 5 | – | – |
| EGF1A | Single | 50 | 1 | 1 | 50 | 10 | – | – |
| ES1B | Single | 100 | 1 | 0.92 | 15 | 5 | – | – |

Rectifiers – UltraFast Recovery Rectifiers (Continued)

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _F Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) | t _a @125°C Typ (ns) | t _b @125°C Typ (ns) |
|-----------------|----------------|----------------------|-------------------------|------------------------|--------------------------|--|--------------------------------|--------------------------------|
| EGF1B | Single | 100 | 1 | 1 | 50 | 10 | – | – |
| ES1C | Single | 150 | 1 | 0.92 | 15 | 5 | – | – |
| EGF1C | Single | 150 | 1 | 1 | 50 | 10 | – | – |
| ES1D | Single | 200 | 1 | 0.92 | 15 | 5 | – | – |
| EGF1D | Single | 200 | 1 | 1 | 50 | 10 | – | – |
| SMB | | | | | | | | |
| ES2A | Single | 50 | 2 | 0.95 | 20 | 10 | – | – |
| ES2B | Single | 100 | 2 | 0.95 | 20 | 10 | – | – |
| ES2C | Single | 150 | 2 | 0.95 | 20 | 10 | – | – |
| ES2D | Single | 200 | 2 | 0.95 | 20 | 10 | – | – |
| SMC | | | | | | | | |
| ES3A | Single | 50 | 3 | 0.95 | 20 | 10 | – | – |
| ES3B | Single | 100 | 3 | 0.95 | 20 | 10 | – | – |
| ES3C | Single | 150 | 3 | 0.95 | 20 | 10 | – | – |
| ES3D | Single | 200 | 3 | 0.95 | 20 | 10 | – | – |
| TO-220 | | | | | | | | |
| FFP06U2ODN | Common Cathode | 200 | 6 | 1.2 | 35 | 6 | – | – |
| FFP10U2ODN | Common Cathode | 200 | 10 | 1.2 | 35 | 10 | – | – |
| FFP15U2ODN | Common Cathode | 200 | 15 | 1.2 | 40 | 15 | – | – |
| FFP04U4ODN | Common Cathode | 400 | 4 | 1.4 | 45 | 10 | – | – |
| FFP06U4ODN | Common Cathode | 400 | 6 | 1.4 | 50 | 20 | – | – |
| FFP05U6ODN | Common Cathode | 600 | 5 | 2.3 | 80 | 2 | – | – |
| FFP10U6ODN | Common Cathode | 600 | 10 | 2.2 | 90 | 5 | – | – |
| FFP20U6ODN | Common Cathode | 600 | 20 | 2.2 | 90 | 10 | – | – |
| FFP30U6ODN | Common Cathode | 600 | 30 | 2.3 | 90 | 15 | – | – |
| RURP860 | Single | 600 | 8 | 1.5 | 70 | 100 | 32 | 21 |
| RURP1560 | Single | 600 | 15 | 1.5 | 60 | 100 | 30 | 20 |
| RURP3060 | Single | 600 | 30 | 1.5 | 60 | 250 | 30 | 20 |
| RURP8100 | Single | 1000 | 8 | 1.8 | 100 | 100 | 50 | 30 |
| TO-220AB | | | | | | | | |
| FEP16ATA | Common Anode | 50 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16AT | Common Cathode | 50 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16ATD | Series | 50 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16BTA | Common Anode | 100 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16BT | Common Cathode | 100 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16BTD | Series | 100 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16CTA | Common Anode | 150 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16CT | Common Cathode | 150 | 16 | 0.975 | 35 | 10 | – | – |

Rectifiers – UltraFast Recovery Rectifiers (Continued)

| Part Number | Configuration | V_{RRM} (V) | I_F (AV) (A) | V_F Max (V) | t_{rr} Max (ns) | I_{RM} or I_R Max (μ A) | $t_a@125^\circ\text{C}$ Typ (ns) | $t_b@125^\circ\text{C}$ Typ (ns) |
|-----------------|----------------|---------------|----------------|---------------|-------------------|----------------------------------|----------------------------------|----------------------------------|
| FEP16CTD | Series | 150 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16DTA | Common Anode | 200 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16DT | Common Cathode | 200 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16DTD | Series | 200 | 16 | 0.975 | 35 | 10 | – | – |
| FEP16FTA | Common Anode | 300 | 16 | 1.3 | 50 | 10 | – | – |
| FEP16FT | Common Cathode | 300 | 16 | 1.3 | 50 | 10 | – | – |
| FEP16FTD | Series | 300 | 16 | 1.3 | 50 | 10 | – | – |
| FES16FTR | Single | 300 | 16 | 1.3 | 50 | 10 | – | – |
| FEP16GTA | Common Anode | 400 | 16 | 1.3 | 50 | 10 | – | – |
| FEP16GT | Common Cathode | 400 | 16 | 1.3 | 50 | 10 | – | – |
| FEP16GTD | Series | 400 | 16 | 1.3 | 50 | 10 | – | – |
| FEP16HTA | Common Anode | 500 | 16 | 1.5 | 50 | 10 | – | – |
| FEP16HT | Common Cathode | 500 | 16 | 1.5 | 50 | 10 | – | – |
| FEP16HTD | Series | 500 | 16 | 1.5 | 50 | 10 | – | – |
| FEP16JTA | Common Anode | 600 | 16 | 1.5 | 50 | 10 | – | – |
| FEP16JT | Common Cathode | 600 | 16 | 1.5 | 50 | 10 | – | – |
| FEP16JTD | Series | 600 | 16 | 1.5 | 50 | 10 | – | – |
| TO-220AC | | | | | | | | |
| FES16AT | Single | 50 | 16 | 0.975 | 35 | 10 | – | – |
| FES16ATR | Single | 50 | 16 | 0.975 | 35 | 10 | – | – |
| FES16BT | Single | 100 | 16 | 0.975 | 35 | 10 | – | – |
| FES16BTR | Single | 100 | 16 | 0.975 | 35 | 10 | – | – |
| FES16CT | Single | 150 | 16 | 0.975 | 35 | 10 | – | – |
| FES16CTR | Single | 150 | 16 | 0.975 | 35 | 10 | – | – |
| FES16DT | Single | 200 | 16 | 0.975 | 35 | 10 | – | – |
| FES16DTR | Single | 200 | 16 | 0.975 | 35 | 10 | – | – |
| FES16FT | Single | 300 | 16 | 1.3 | 50 | 10 | – | – |
| FES16GT | Single | 400 | 16 | 1.3 | 50 | 10 | – | – |
| FES16GTR | Single | 400 | 16 | 1.3 | 50 | 10 | – | – |
| FES16HT | Single | 500 | 16 | 1.5 | 50 | 10 | – | – |
| FES16HTR | Single | 500 | 16 | 1.5 | 50 | 10 | – | – |
| FES16JTR | Single | 600 | 16 | 1.5 | 50 | 10 | – | – |
| TO-220F | | | | | | | | |
| FFPF06U20DP | Common Anode | 200 | 6 | 1.2 | 35 | 6 | – | – |
| FFPF10U20DP | Common Anode | 200 | 10 | 1.2 | 35 | 10 | – | – |
| FFPF15U20DP | Common Anode | 200 | 15 | 1.2 | 40 | 15 | – | – |
| FFPF06U20DN | Common Cathode | 200 | 6 | 1.2 | 35 | 6 | – | – |
| FFPF10U20DN | Common Cathode | 200 | 10 | 1.2 | 35 | 10 | – | – |

Rectifiers – UltraFast Recovery Rectifiers (Continued)

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _F Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) | t _a @125°C Typ (ns) | t _b @125°C Typ (ns) |
|----------------------|----------------|----------------------|-------------------------|------------------------|--------------------------|--|--------------------------------|--------------------------------|
| FFPF15U20DN | Common Cathode | 200 | 15 | 1.2 | 40 | 15 | – | – |
| FFPF06U20S | Single | 200 | 6 | 1.2 | 35 | 6 | – | – |
| FFPF10U20S | Single | 200 | 10 | 1.2 | 35 | 10 | – | – |
| FFPF15U20S | Single | 200 | 15 | 1.2 | 40 | 15 | – | – |
| FFPF20U20S | Single | 200 | 20 | 1.2 | 40 | 20 | – | – |
| FFPF30U20S | Single | 200 | 30 | 1.2 | 40 | 30 | – | – |
| FFPF04U40DP | Common Anode | 400 | 4 | 1.4 | 45 | 10 | – | – |
| FFPF06U40DP | Common Anode | 400 | 6 | 1.4 | 50 | 20 | – | – |
| FFPF04U40DN | Common Cathode | 400 | 4 | 1.4 | 45 | 10 | – | – |
| FFPF06U40DN | Common Cathode | 400 | 6 | 1.4 | 50 | 20 | – | – |
| FFPF04U40S | Single | 400 | 4 | 1.4 | 45 | 10 | – | – |
| FFPF06U40S | Single | 400 | 6 | 1.4 | 50 | 20 | – | – |
| FFPF10U40S | Single | 400 | 10 | 1.4 | 50 | 30 | – | – |
| FFPF15U40S | Single | 400 | 15 | 1.4 | 50 | 40 | – | – |
| FFPF20U40S | Single | 400 | 20 | 1.4 | 50 | 50 | – | – |
| FFPF05U60DN | Common Cathode | 600 | 5 | 2.3 | 80 | 2 | – | – |
| FFPF10U60DN | Common Cathode | 600 | 10 | 2.2 | 90 | 5 | – | – |
| FFPF20U60DN | Common Cathode | 600 | 20 | 2.2 | 90 | 10 | – | – |
| FFPF30U60DN | Common Cathode | 600 | 30 | 2.3 | 90 | 15 | – | – |
| FFPF05U60S | Single | 600 | 5 | 2.3 | 80 | 2 | – | – |
| FFPF10U60S | Single | 600 | 10 | 2.2 | 90 | 5 | – | – |
| FFPF20U60S | Single | 600 | 20 | 2.2 | 90 | 10 | – | – |
| FFPF30U60S | Single | 600 | 30 | 2.3 | 90 | 15 | – | – |
| FFPF40U60S | Single | 600 | 40 | 2.1 | 110 | 20 | – | – |
| FFPF05U120S | Single | 1200 | 5 | 3.5 | 100 | 5 | – | – |
| FFPF10U120S | Single | 1200 | 10 | 3.5 | 100 | 10 | – | – |
| FFPF15U120S | Single | 1200 | 15 | 3.5 | 100 | 15 | – | – |
| TO-247 | | | | | | | | |
| RURG1520CC | Common Cathode | 200 | 15 | 1.05 | 35 | 100 | 20 | 10 |
| RURG3020CC | Common Cathode | 200 | 30 | 1 | 50 | 250 | 20 | 15 |
| RURG3060CC | Common Cathode | 600 | 30 | 1.5 | 60 | 250 | 30 | 20 |
| RURG3060 | Single | 600 | 30 | 1.5 | 60 | 250 | 30 | 20 |
| RURG5060 | Single | 600 | 75 | 1.6 | 75 | 250 | 30 | 20 |
| RURG8060 | Single | 600 | 80 | 1.6 | 85 | 250 | 40 | 25 |
| RURG80100 | Single | 1000 | 80 | 1.9 | 200 | 250 | 90 | 65 |
| TO-251 (IPAK) | | | | | | | | |
| RURD660 | Single | 600 | 6 | 1.5 | 60 | 100 | 28 | 16 |

Rectifiers – UltraFast Recovery Rectifiers (Continued)

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _F Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) | t _a @125°C Typ (ns) | t _b @125°C Typ (ns) |
|---------------------------------|----------------|----------------------|-------------------------|------------------------|--------------------------|--|--------------------------------|--------------------------------|
| TO-252(DPAK) | | | | | | | | |
| RURD460S | Single | 600 | 4 | 1.5 | 60 | 100 | 32 | 15 |
| RURD660S9A | Single | 600 | 6 | 1.5 | 60 | 100 | 28 | 16 |
| TO-263(D²PAK) | | | | | | | | |
| FFB10U20S | Single | 200 | 10 | 1.2 | 35 | 10 | – | – |
| FFB20U20S | Single | 200 | 20 | 1.2 | 40 | 20 | – | – |
| FFB06U40S | Single | 400 | 6 | 1.4 | 50 | 20 | – | – |
| FFB20U60S | Single | 600 | 20 | 2.2 | 90 | 20 | – | – |
| FFB05U120S | Single | 1200 | 5 | 3.5 | 100 | 5 | – | – |
| FFB10U120S | Single | 1200 | 10 | 3.5 | 100 | 10 | – | – |
| TO-264 | | | | | | | | |
| FFL60U60DN | Common Cathode | 600 | 60 | 2.2 | 90 | 25 | – | – |
| FFL20U120DN | Common Cathode | 1200 | 20 | 3.5 | 120 | 20 | – | – |
| FFL25U120DN | Common Cathode | 1200 | 25 | 3.5 | 120 | 25 | – | – |
| TO-3P | | | | | | | | |
| FFA15U20DN | Common Cathode | 200 | 15 | 1.2 | 40 | 15 | – | – |
| FFA20U20DN | Common Cathode | 200 | 20 | 1.2 | 40 | 20 | – | – |
| FFA30U20DN | Common Cathode | 200 | 30 | 1.2 | 40 | 30 | – | – |
| FFA10U40DN | Common Cathode | 400 | 10 | 1.4 | 50 | 30 | – | – |
| FFA15U40DN | Common Cathode | 400 | 15 | 1.4 | 50 | 40 | – | – |
| FFA20U40DN | Common Cathode | 400 | 20 | 1.4 | 50 | 50 | – | – |
| FFA20U60DN | Common Cathode | 600 | 20 | 2.2 | 90 | 10 | – | – |
| FFA30U60DN | Common Cathode | 600 | 30 | 2.3 | 90 | 15 | – | – |
| FFA40U60DN | Common Cathode | 600 | 40 | 2.1 | 110 | 20 | – | – |
| FFA60U60DN | Common Cathode | 600 | 60 | 2.2 | 90 | 25 | – | – |
| FFA05U120DN | Common Cathode | 1200 | 5 | 3.5 | 100 | 5 | – | – |
| FFA10U120DN | Common Cathode | 1200 | 10 | 3.5 | 100 | 10 | – | – |
| FFA15U120DN | Common Cathode | 1200 | 15 | 3.5 | 100 | 15 | – | – |
| FFA20U120DN | Common Cathode | 1200 | 20 | 3.5 | 120 | 20 | – | – |
| TO-3PF | | | | | | | | |
| FFAF10U20DN | Common Cathode | 200 | 10 | 1.2 | 35 | 10 | – | – |
| FFAF15U20DN | Common Cathode | 200 | 15 | 1.2 | 40 | 15 | – | – |
| FFAF20U20DN | Common Cathode | 200 | 20 | 1.2 | 40 | 20 | – | – |
| FFAF10U40DN | Common Cathode | 400 | 10 | 1.4 | 50 | 30 | – | – |
| FFAF20U60DN | Common Cathode | 600 | 20 | 2.2 | 90 | 10 | – | – |
| FFAF30U60DN | Common Cathode | 600 | 30 | 2.3 | 90 | 15 | – | – |
| FFAF40U60DN | Common Cathode | 600 | 40 | 2.1 | 110 | 20 | – | – |
| FFAF60U60DN | Common Cathode | 600 | 60 | 2.2 | 90 | 25 | – | – |

Rectifiers – UltraFast Recovery Rectifiers (Continued)

| Part Number | Configuration | V_{RRM} (V) | I_F (AV) (A) | V_F Max (V) | t_{rr} Max (ns) | I_{RM} or I_R Max (μ A) | t_a @125°C Typ (ns) | t_b @125°C Typ (ns) |
|--------------|----------------|---------------|----------------|---------------|-------------------|----------------------------------|-----------------------|-----------------------|
| FFAF05U120DN | Common Cathode | 1200 | 5 | 3.5 | 100 | 5 | – | – |
| FFAF10U120DN | Common Cathode | 1200 | 10 | 3.5 | 100 | 10 | – | – |
| FFAF15U120DN | Common Cathode | 1200 | 15 | 3.5 | 100 | 15 | – | – |
| FFAF20U120DN | Common Cathode | 1200 | 20 | 3.5 | 120 | 20 | – | – |

Damper/Damper+Modulation Diodes

| Part Number | Configuration | V _{RRM} (V) | I _F (AV) (A) | V _{FM} Max (V) | t _{rr} Max (ns) | I _{RM} or I _R Max (μA) |
|----------------|---------------|----------------------|-------------------------|-------------------------|--------------------------|--|
| TO-220F | | | | | | |
| FFPF04F150S | Single | 1500 | 4 | 1.5 | 170 | 5 |
| FFPF04U150S | Single | 1500 | 4 | 1.8 | 150 | 7 |
| FFPF06F150S | Single | 1500 | 6 | 1.6 | 170 | 7 |
| FFPF06U150S | Single | 1500 | 6 | 1.8 | 150 | 10 |
| FFPF10F150S | Single | 1500 | 10 | 1.6 | 170 | 10 |
| FFPF10U150S | Single | 1500 | 10 | 1.8 | 150 | 15 |
| FFPF14U150S | Single | 1500 | 14 | 1.8 | 150 | 20 |
| FFPF14X150S | Single | 1500 | 14 | 2.4 | 120 | 20 |
| FFPF60B150DS | Series | – | – | 1.6 | 170 | – |
| TO-3PF | | | | | | |
| FFAF10U170S | Single | 1700 | 10 | 2 | 140 | 0 |
| FFAF60A150DS | Series | – | – | 1.6 | 170 | – |

Schottky Diodes and Rectifiers

| Part Number | Function | Configuration | I _{FSM} (A) | Thermal Resistance ROJA (Cel/W) | V _{RRM} Maximum Repetitive Reverse Voltage (V) | I _{F (AV)} Average Rectified Forward Current (A) | V _{FM} Maximum Instantaneous Forward Voltage (V) | I _{RM} Maximum Instantaneous Reverse Current | |
|-----------------|----------------------------|---------------|----------------------|---------------------------------|---|---|---|---|---------------------|
| | | | | | | | | (µA) | @V _R (V) |
| DO-201AD | | | | | | | | | |
| 1N5820 | – | Single | 80 | 28 | 20 | 3 | 0.475 | 500 | 20 |
| 1N5821 | – | Single | 80 | 28 | 30 | 3 | 0.5 | 500 | 30 |
| 1N5822 | – | Single | 80 | 28 | 40 | 3 | 0.525 | 500 | 40 |
| SB3100 | Schottky Barrier Rectifier | Single | 80 | 40 | 20 | 3 | 0.85 | 500 | 100 |
| SB330 | Schottky Barrier Rectifier | Single | 80 | 40 | 30 | 3 | 0.5 | 500 | 30 |
| SB340 | Schottky Barrier Rectifier | Single | 80 | 40 | 40 | 3 | 0.5 | 500 | 40 |
| SB350 | Schottky Barrier Rectifier | Single | 80 | 40 | 50 | 3 | 0.5 | 500 | 50 |
| SB360 | Schottky Barrier Rectifier | Single | 80 | 40 | 60 | 3 | 0.74 | 500 | 60 |
| SB380 | Schottky Barrier Rectifier | Single | 80 | 40 | 80 | 3 | 0.74 | 500 | 80 |
| SB5100 | Schottky Barrier Rectifier | Single | 150 | 25 | 100 | 5 | 0.85 | 500 | 100 |
| SB520 | Schottky Barrier Rectifier | Single | 150 | 25 | 20 | 5 | 0.55 | 500 | 20 |
| SB530 | Schottky Barrier Rectifier | Single | 150 | 25 | 30 | 5 | 0.55 | 500 | 30 |
| SB540 | Schottky Barrier Rectifier | Single | 150 | 25 | 40 | 5 | 0.55 | 500 | 40 |
| SB550 | Schottky Barrier Rectifier | Single | 150 | 25 | 50 | 5 | 0.67 | 500 | 50 |
| SB560 | Schottky Barrier Rectifier | Single | 150 | 25 | 60 | 5 | 0.67 | 500 | 60 |
| SB580 | Schottky Barrier Rectifier | Single | 150 | 25 | 80 | 5 | 0.85 | 500 | 80 |
| DO-41 | | | | | | | | | |
| 1N5817 | Schottky Barrier Rectifier | Single | 25 | 80 | 20 | 1 | 0.45 | 500 | 20 |
| 1N5818 | Schottky Barrier Rectifier | Single | 25 | 80 | 30 | 1 | 0.55 | 500 | 30 |
| 1N5819 | Schottky Barrier Rectifier | Single | 25 | 80 | 40 | 1 | 0.6 | 500 | 40 |
| SB1100 | – | – | – | – | – | – | 0.85 | 200 | 200 |
| SB120 | Schottky Barrier Rectifier | Single | 30 | 80 | 20 | 1 | 0.5 | 500 | 20 |
| SB130 | Schottky Barrier Rectifier | Single | 30 | 80 | 30 | 1 | 0.5 | 500 | 30 |
| SB140 | Schottky Barrier Rectifier | Single | 30 | 80 | 40 | 1 | 0.5 | 500 | 40 |
| SB150 | Schottky Barrier Rectifier | Single | 30 | 80 | 50 | 1 | 0.7 | 500 | 50 |
| SB160 | Schottky Barrier Rectifier | Single | 30 | 80 | 60 | 1 | 0.7 | 500 | 60 |
| SB180 | Schottky Barrier Rectifier | Single | 30 | 80 | 80 | 1 | 0.85 | 500 | 80 |
| SMA | | | | | | | | | |
| FMKA130L | Schottky Barrier Rectifier | Single | 30 | – | 30 | 1 | – | – | – |
| FMKA140 | Schottky Barrier Rectifier | Single | 30 | – | 40 | 1 | 0.6 | 1000 | 40 |
| S100 | Schottky Barrier Rectifier | Single | 40 | 88 | 100 | 1 | 0.85 | 200 | 100 |
| SS12 | Schottky Barrier Rectifier | Single | 40 | 88 | 20 | 1 | 0.5 | 200 | 20 |
| SS13 | Schottky Barrier Rectifier | Single | 40 | 88 | 30 | 1 | 0.5 | 200 | 30 |
| SS14 | Schottky Barrier Rectifier | Single | 40 | 88 | 40 | 1 | 0.5 | 200 | 40 |

Schottky Diodes and Rectifiers (Continued)

| Part Number | Function | Configuration | I _{FSM} (A) | Thermal Resistance R _{ΘJA} (Cel/W) | V _{RRM} Maximum Repetitive Reverse Voltage (V) | I _{F (AV)} Average Rectified Forward Current (A) | V _{FM} Maximum Instantaneous Forward Voltage (V) | I _{RM} Maximum Instantaneous Reverse Current | |
|----------------|----------------------------|--------------------------|----------------------|--|---|---|---|--|---------------------|
| | | | | | | | | (μA) | @V _R (V) |
| SS15 | Schottky Barrier Rectifier | Single | 40 | 88 | 50 | 1 | 0.7 | 200 | 50 |
| SS16 | Schottky Barrier Rectifier | Single | 40 | 88 | 60 | 1 | 0.7 | 200 | 60 |
| SS18 | Schottky Barrier Rectifier | Single | 40 | 88 | 80 | 1 | 0.85 | 200 | 80 |
| SS19 | Schottky Barrier Rectifier | Single | 40 | 88 | 90 | 1 | 0.85 | 200 | 90 |
| SMB | | | | | | | | | |
| MBRS130L | Schottky Barrier Rectifier | Single | 40 | – | 30 | 1 | 0.395 | 1000 | 30 |
| MBRS140 | Schottky Barrier Rectifier | Single | 40 | – | 40 | 1 | 0.6 | 1000 | 40 |
| S210 | Schottky Barrier Rectifier | Single | 50 | 75 | 100 | 2 | 0.85 | 400 | 100 |
| SS22 | Schottky Barrier Rectifier | Single | 50 | 75 | 20 | 2 | 0.5 | 400 | 20 |
| SS23 | Schottky Barrier Rectifier | Single | 50 | 75 | 30 | 2 | 0.5 | 400 | 30 |
| SS24 | Schottky Barrier Rectifier | Single | 50 | 75 | 40 | 2 | 0.5 | 400 | 40 |
| SS25 | Schottky Barrier Rectifier | Single | 50 | 75 | 50 | 2 | 0.7 | 400 | 50 |
| SS26 | Schottky Barrier Rectifier | Single | 50 | 75 | 60 | 2 | 0.7 | 400 | 60 |
| SS28 | Schottky Barrier Rectifier | Single | 50 | 75 | 80 | 2 | 0.85 | 400 | 80 |
| SS29 | Schottky Barrier Rectifier | Single | 50 | 75 | 90 | 2 | 0.85 | 400 | 90 |
| SMC | | | | | | | | | |
| MBRS320 | Schottky Barrier Rectifier | Single | 80 | – | 20 | 3 | 0.5 | 2000 | 20 |
| MBRS340 | Schottky Barrier Rectifier | Single | 80 | – | 40 | 3 | 0.525 | 2000 | 40 |
| S310 | Schottky Barrier Rectifier | Single | 100 | 55 | 100 | 3 | 0.85 | 500 | 100 |
| SS32 | Schottky Barrier Rectifier | Single | 100 | 55 | 20 | 3 | 0.5 | 500 | 20 |
| SS33 | Schottky Barrier Rectifier | Single | 100 | 55 | 30 | 3 | 0.5 | 500 | 30 |
| SS34 | Schottky Barrier Rectifier | Single | 100 | 55 | 40 | 3 | 0.5 | 500 | 40 |
| SS35 | Schottky Barrier Rectifier | Single | 100 | 55 | 50 | 3 | 0.75 | 500 | 50 |
| SS36 | Schottky Barrier Rectifier | Single | 100 | 55 | 60 | 3 | 0.75 | 500 | 60 |
| SS38 | Schottky Barrier Rectifier | Single | 100 | 55 | 80 | 3 | 0.85 | 500 | 80 |
| SS39 | Schottky Barrier Rectifier | Single | 100 | 55 | 90 | 3 | 0.85 | 500 | 90 |
| SOD-123 | | | | | | | | | |
| MBR0520L | Schottky Barrier Rectifier | Single | 5.5 | 340 | 20 | 0.5 | 0.385 | 250 | 20 |
| MBR0540 | Schottky Barrier Rectifier | Single | 5.5 | 206 | 40 | 0.5 | 0.51 | 20 | 40 |
| SOT-23 | | | | | | | | | |
| BAR43 | Schottky Diode | Single | 0.75 | 430 | 30 | 0.2 | 1 | 0.5 | 25 |
| BAR43C | Schottky Diode | Dual & Common Cathode | 0.75 | 430 | 30 | 0.2 | 1 | 0.5 | 25 |
| BAR43S | Schottky Diode | Dual Series | 0.75 | 430 | 30 | 0.2 | 1 | 0.5 | 25 |
| BAT54 | Schottky Diode | Single | 0.6 | 430 | 30 | 0.3 | 1 | 2 | 25 |

Schottky Diodes and Rectifiers (Continued)

| Part Number | Function | Configuration | I _{FSM} (A) | Thermal Resistance R _{ΘJA} (Cel/W) | V _{RRM} Maximum Repetitive Reverse Voltage (V) | I _{F (AV)} Average Rectified Forward Current (A) | V _{FM} Maximum Instantaneous Forward Voltage (V) | I _{RM} Maximum Instantaneous Reverse Current | |
|--------------------------|----------------------------|-----------------------|----------------------|--|---|---|---|--|---------------------|
| | | | | | | | | (μA) | @V _R (V) |
| BAT54A | Schottky Diode | Dual & Common Anode | 0.6 | 430 | 30 | 0.3 | 1 | 2 | 25 |
| BAT54C | Schottky Diode | Dual & Common Cathode | 0.6 | 430 | 30 | 0.3 | 1 | 2 | 25 |
| BAT54S | Schottky Diode | Dual Series | 0.6 | 430 | 30 | 0.3 | 1 | 2 | 25 |
| MMBD301 | Schottky Diode | Single | 0.6 | 430 | 30 | 0.04 | 0.6 | 2 | 25 |
| MMBD701 | Schottky Diode | Single | 0.6 | 430 | 70 | 0.15 | 1 | 2 | 35 |
| SOT-23/SuperSOT-3 | | | | | | | | | |
| FYV0203DN | Schottky Diode | Dual & Common Cathode | 0.6 | 430 | 30 | 0.2 | 1 | 2 | 30 |
| FYV0203DP | Schottky Diode | Dual & Common Anode | 0.6 | 430 | 30 | 0.2 | 1 | 2 | 30 |
| FYV0203DS | Schottky Diode | Dual Series | 0.6 | 430 | 30 | 0.2 | 1 | 2 | 30 |
| FYV0203S | Schottky Diode | Single | 0.6 | 430 | 30 | 0.2 | 1 | 2 | 30 |
| FYV0704S | Schottky Barrier Rectifier | Single | – | 250 | 40 | 0.75 | 0.48 | 100 | 40 |
| TO-220 | | | | | | | | | |
| FYP1004DN | Schottky Barrier Rectifier | Dual & Common Cathode | 80 | – | 40 | 10 | 0.55 | 1000 | 40 |
| FYP1010DN | Schottky Barrier Rectifier | Dual & Common Cathode | 100 | – | 100 | 10 | 0.75 | 1000 | 100 |
| FYP1045DN | Schottky Barrier Rectifier | Dual & Common Cathode | 80 | – | 45 | 10 | 0.55 | 1000 | 45 |
| FYP1504DN | Schottky Barrier Rectifier | Dual & Common Cathode | 100 | – | 40 | 15 | 0.55 | 1000 | 40 |
| FYP1545DN | Schottky Barrier Rectifier | Dual & Common Cathode | 100 | – | 45 | 15 | 0.55 | 1000 | 45 |
| FYP2004DN | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | – | 40 | 20 | 0.55 | 1000 | 40 |
| FYP2006DN | Schottky Barrier Rectifier | Dual & Common Cathode | 200 | – | 60 | 20 | 0.58 | 1000 | 60 |
| FYP2010DN | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | – | 100 | 20 | 0.77 | 100 | 100 |
| FYP2045DN | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | – | 45 | 20 | 0.55 | 1000 | 45 |
| MBRP1545N | – | – | – | – | – | – | – | – | – |
| MBRP2045N | – | – | – | – | – | – | – | – | – |
| MBRP3045N | – | – | – | – | – | – | – | – | – |

Schottky Diodes and Rectifiers (Continued)

| Part Number | Function | Configuration | I _{FSM} (A) | Thermal Resistance R _{ΘJA} (Cel/W) | V _{RRM} Maximum Repetitive Reverse Voltage (V) | I _F (AV) Average Rectified Forward Current (A) | V _{FM} Maximum Instantaneous Forward Voltage (V) | I _{RM} Maximum Instantaneous Reverse Current | |
|-----------------|----------------------------|-----------------------|----------------------|--|---|---|---|--|---------------------|
| | | | | | | | | (μA) | @V _R (V) |
| TO-220AB | | | | | | | | | |
| MBR1535CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 35 | 15 | 0.84 | 100 | 35 |
| MBR1545CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 45 | 15 | 0.84 | 100 | 45 |
| MBR1550CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 50 | 15 | 0.75 | 1000 | 50 |
| MBR1560CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 60 | 15 | 0.75 | 1000 | 60 |
| MBR2035CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 35 | 20 | 0.84 | 100 | 35 |
| MBR2045CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 45 | 20 | 0.84 | 100 | 45 |
| MBR2050CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 50 | 20 | 0.95 | 150 | 50 |
| MBR2060CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 60 | 20 | 0.95 | 150 | 60 |
| MBR2535CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 35 | 30 | 0.82 | 200 | 35 |
| MBR2545CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 45 | 30 | 0.82 | 200 | 45 |
| MBR2550CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 50 | 30 | 0.75 | 1000 | 50 |
| MBR2560CT | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | 60 | 60 | 30 | 0.75 | 1000 | 60 |
| TO-220AC | | | | | | | | | |
| MBR1035 | Schottky Barrier Rectifier | Single | 150 | 60 | 35 | 10 | 0.84 | 100 | 35 |
| MBR1045 | Schottky Barrier Rectifier | Single | 150 | 60 | 45 | 10 | 0.84 | 100 | 45 |
| MBR1050 | Schottky Barrier Rectifier | Single | 150 | 60 | 50 | 10 | 0.8 | 100 | 50 |
| MBR1060 | Schottky Barrier Rectifier | Single | 150 | 60 | 60 | 10 | 0.8 | 100 | 60 |
| MBR1635 | Schottky Barrier Rectifier | Single | 150 | 60 | 35 | 16 | 0.63 | 200 | 35 |
| MBR1645 | Schottky Barrier Rectifier | Single | 150 | 60 | 45 | 16 | 0.63 | 200 | 45 |
| MBR1650 | Schottky Barrier Rectifier | Single | 150 | 60 | 50 | 16 | 0.75 | 1000 | 50 |
| MBR1660 | Schottky Barrier Rectifier | Single | 150 | 60 | 60 | 16 | 0.75 | 1000 | 60 |
| MBR735 | Schottky Barrier Rectifier | Single | 150 | 60 | 35 | 7.5 | 0.84 | 100 | 35 |
| MBR745 | Schottky Barrier Rectifier | Single | 150 | 60 | 45 | 7.5 | 0.84 | 100 | 45 |
| MBR750 | Schottky Barrier Rectifier | Single | 150 | 60 | 50 | 7.5 | 0.75 | 500 | 50 |
| MBR760 | Schottky Barrier Rectifier | Single | 150 | 60 | 60 | 7.5 | 0.75 | 500 | 60 |

Schottky Diodes and Rectifiers (Continued)

| Part Number | Function | Configuration | I _{FSM} (A) | Thermal Resistance R _{ΘJA} (Cel/W) | V _{RRM} Maximum Repetitive Reverse Voltage (V) | I _{F (AV)} Average Rectified Forward Current (A) | V _{FM} Maximum Instantaneous Forward Voltage (V) | I _{RM} Maximum Instantaneous Reverse Current | |
|---------------------|----------------------------|-----------------------|----------------------|--|---|---|---|--|---------------------|
| | | | | | | | | (μA) | @V _R (V) |
| TO-220F | | | | | | | | | |
| FYPF0545S | Schottky Barrier Rectifier | Single | 80 | – | 45 | 5 | 0.55 | 1000 | 45 |
| FYPF1004DN | Schottky Barrier Rectifier | Dual & Common Cathode | 80 | – | 40 | 10 | 0.55 | 1000 | 40 |
| FYPF1010DN | Schottky Barrier Rectifier | Dual & Common Cathode | 100 | – | 100 | 10 | 0.75 | 1000 | 100 |
| FYPF1045DN | Schottky Barrier Rectifier | Dual & Common Cathode | 80 | – | 45 | 10 | 0.55 | 1000 | 45 |
| FYPF1504DN | Schottky Barrier Rectifier | Dual & Common Cathode | 100 | – | 40 | 15 | 0.55 | 1000 | 40 |
| FYPF1545DN | Schottky Barrier Rectifier | Dual & Common Cathode | 100 | – | 45 | 15 | 0.55 | 1000 | 45 |
| FYPF2004DN | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | – | 40 | 20 | 0.55 | 1000 | 40 |
| FYPF2006DN | Schottky Barrier Rectifier | Dual & Common Cathode | 200 | – | 60 | 20 | 0.58 | 1000 | 60 |
| FYPF2010DN | Schottky Barrier Rectifier | Dual & Common Cathode | 150 | – | 100 | 20 | 0.77 | 100 | 100 |
| FYPF2045DN | Schottky Barrier Rectifier | Dual & Common Cathode | 80 | – | 40 | 10 | 0.55 | 1000 | 45 |
| TO-247 | | | | | | | | | |
| MBR3035PT | Schottky Barrier Rectifier | Dual & Common Cathode | 200 | 60 | 35 | 30 | 0.76 | 1000 | 35 |
| MBR3045PT | Schottky Barrier Rectifier | Dual & Common Cathode | 200 | 60 | 45 | 30 | 0.76 | 1000 | 45 |
| MBR3050PT | Schottky Barrier Rectifier | Dual & Common Cathode | 200 | 60 | 50 | 30 | 0.75 | 5000 | 50 |
| MBR3060PT | Schottky Barrier Rectifier | Dual & Common Cathode | 200 | 60 | 60 | 30 | 0.75 | 5000 | 60 |
| MBR4035PT | Schottky Barrier Rectifier | Dual & Common Cathode | 400 | 60 | 35 | 40 | 0.7 | 1000 | 35 |
| MBR4045PT | Schottky Barrier Rectifier | Dual & Common Cathode | 400 | 60 | 45 | 40 | 0.7 | 1000 | 45 |
| MBR4050PT | Schottky Barrier Rectifier | Dual & Common Cathode | 400 | 60 | 50 | 40 | 0.72 | 1000 | 50 |
| MBR4060PT | Schottky Barrier Rectifier | Dual & Common Cathode | 400 | 60 | 60 | 40 | 0.72 | 1000 | 60 |
| TO-252(DPAK) | | | | | | | | | |
| FYD0504SA | Schottky Barrier Rectifier | Single | 80 | – | 40 | 5 | 0.55 | 1000 | 40 |

Schottky Diodes and Rectifiers (Continued)

| Part Number | Function | Configuration | I _{FSM} (A) | Thermal Resistance R _{OJA} (Cel/W) | V _{RRM} Maximum Repetitive Reverse Voltage (V) | I _{F (AV)} Average Rectified Forward Current (A) | V _{FM} Maximum Instantaneous Forward Voltage (V) | I _{RM} Maximum Instantaneous Reverse Current | |
|---------------|----------------------------|-----------------------|----------------------|--|--|--|--|--|---------------------|
| | | | | | | | | (μA) | @V _R (V) |
| TO-3P | | | | | | | | | |
| MBRA3045N | – | – | – | – | – | – | – | – | – |
| TO-3PF | | | | | | | | | |
| FYAF3004DN | Schottky Barrier Rectifier | Dual & Common Cathode | 300 | – | 40 | 30 | 0.55 | 1000 | 40 |
| FYAF3045DN | Schottky Barrier Rectifier | Dual & Common Cathode | 300 | – | 45 | 30 | 0.55 | 1000 | 45 |

Bridge Rectifiers

| Products | V_{RRM} Maximum Repetitive Reverse Voltage (V) | $I_{F(AV)}$ Average Rectified Forward Current (A) | V_{FM} Maximum Instantaneous Forward Voltage (V) |
|----------------------|--|---|--|
| DIP | | | |
| DF005M | 50 | 1.5 | 1.1 |
| DF005S | 50 | 1.5 | 1.1 |
| DF01M | 100 | 1.5 | 1.1 |
| DF01S | 100 | 1.5 | 1.1 |
| DF02M | 200 | 1.5 | 1.1 |
| DF02S | 200 | 1.5 | 1.1 |
| DF04M | 400 | 1.5 | 1.1 |
| DF04S | 400 | 1.5 | 1.1 |
| DF06M | 600 | 1.5 | 1.1 |
| DF06S | 600 | 1.5 | 1.1 |
| DF08M | 800 | 1.5 | 1.1 |
| DF08S | 800 | 1.5 | 1.1 |
| DF10M | 1000 | 1.5 | 1.1 |
| DF10S | 1000 | 1.5 | 1.1 |
| GBPC GBPC-W | | | |
| GBPC12005 | 50 | 12 | 1.1 |
| GBPC1201 | 100 | 12 | 1.1 |
| GBPC1202 | 200 | 12 | 1.1 |
| GBPC1204 | 400 | 12 | 1.1 |
| GBPC1206 | 600 | 12 | 1.1 |
| GBPC1208 | 800 | 12 | 1.1 |
| GBPC1210 | 1000 | 12 | 1.1 |
| GBPC15005 | 50 | 15 | 1.1 |
| GBPC1501 | 100 | 15 | 1.1 |
| GBPC1502 | 200 | 15 | 1.1 |
| GBPC1504 | 400 | 15 | 1.1 |
| GBPC1506 | 600 | 15 | 1.1 |
| GBPC1508 | 800 | 15 | 1.1 |
| GBPC1510 | 1000 | 15 | 1.1 |
| GBPC25005 | 50 | 25 | 1.1 |
| GBPC2501 | 100 | 25 | 1.1 |
| GBPC2502 | 200 | 25 | 1.1 |
| GBPC2504 | 400 | 25 | 1.1 |
| GBPC2506 | 600 | 25 | 1.1 |
| GBPC2508 | 800 | 25 | 1.1 |
| GBPC2510 | 1000 | 25 | 1.1 |

Bridge Rectifiers (Continued)

| Products | V_{RRM} Maximum Repetitive Reverse Voltage (V) | $I_{F(AV)}$ Average Rectified Forward Current (A) | V_{FM} Maximum Instantaneous Forward Voltage (V) |
|------------|--|---|--|
| GBPC35005 | 50 | 35 | 1.1 |
| GBPC3501 | 100 | 35 | 1.1 |
| GBPC3502 | 200 | 35 | 1.1 |
| GBPC3504 | 400 | 35 | 1.1 |
| GBPC3506 | 600 | 35 | 1.1 |
| GBPC3508 | 800 | 35 | 1.1 |
| GBPC3510 | 1000 | 35 | 1.1 |
| GBU | | | |
| GBU4A | 50 | 4 | 1 |
| GBU4B | 100 | 4 | 1 |
| GBU4D | 200 | 4 | 1 |
| GBU4G | 400 | 4 | 1 |
| GBU4J | 600 | 4 | 1 |
| GBU4K | 800 | 4 | 1 |
| GBU4M | 1000 | 4 | 1 |
| GBU6A | 50 | 6 | 1 |
| GBU6B | 100 | 6 | 1 |
| GBU6D | 200 | 6 | 1 |
| GBU6G | 400 | 6 | 1 |
| GBU6J | 600 | 6 | 1 |
| GBU6K | 800 | 6 | 1 |
| GBU6M | 1000 | 6 | 1 |
| GBU8A | 50 | 8 | 1 |
| GBU8B | 100 | 8 | 1 |
| GBU8D | 200 | 8 | 1 |
| GBU8G | 400 | 8 | 1 |
| GBU8J | 600 | 8 | 1 |
| GBU8K | 800 | 8 | 1 |
| KBL | | | |
| KBL005 | 50 | 4 | 1.1 |
| KBL01 | 100 | 4 | 1.1 |
| KBL02 | 200 | 4 | 1.1 |
| KBL04 | 400 | 4 | 1.1 |
| KBL06 | 600 | 4 | 1.1 |
| KBL08 | 800 | 4 | 1.1 |
| KBL10 | 1000 | 4 | 1.1 |

Bridge Rectifiers (Continued)

| Products | V_{RRM} Maximum Repetitive Reverse Voltage (V) | $I_{F(AV)}$ Average Rectified Forward Current (A) | V_{FM} Maximum Instantaneous Forward Voltage (V) |
|-------------|--|---|--|
| KBPM | | | |
| 2KBP005M | 50 | 2 | 1.1 |
| 2KBP01M | 100 | 2 | 1.1 |
| 2KBP02M | 200 | 2 | 1.1 |
| 2KBP04M | 400 | 2 | 1.1 |
| 2KBP06M | 600 | 2 | 1.1 |
| 2KBP08M | 800 | 2 | 1.1 |
| 2KBP10M | 1000 | 2 | 1.1 |
| 3N246 | 50 | 1.5 | 1.3 |
| 3N247 | 100 | 1.5 | 1.3 |
| 3N248 | 200 | 1.5 | 1.3 |
| 3N249 | 400 | 1.5 | 1.3 |
| 3N250 | 600 | 1.5 | 1.3 |
| 3N251 | 800 | 1.5 | 1.3 |
| 3N252 | 1000 | 1.5 | 1.3 |
| 3N253 | 50 | 2 | 1.1 |
| 3N254 | 100 | 2 | 1.1 |
| 3N255 | 200 | 2 | 1.1 |
| 3N256 | 400 | 2 | 1.1 |
| 3N257 | 600 | 2 | 1.1 |
| 3N258 | 800 | 2 | 1.1 |
| 3N259 | 1000 | 2 | 1.1 |
| KBPO05M | 50 | 1.5 | 1.3 |
| KBPO1M | 100 | 1.5 | 1.3 |
| KBPO2M | 200 | 1.5 | 1.3 |
| KBPO4M | 400 | 1.5 | 1.3 |
| KBPO6M | 600 | 1.5 | 1.3 |
| KBPO8M | 800 | 1.5 | 1.3 |
| KBP10M | 1000 | 1.5 | 1.3 |
| KBU | | | |
| KBU4A | 50 | 4 | 1 |
| KBU4B | 100 | 4 | 1 |
| KBU4D | 200 | 4 | 1 |
| KBU4G | 400 | 4 | 1 |
| KBU4J | 600 | 4 | 1 |
| KBU4K | 800 | 4 | 1 |
| KBU4M | 1000 | 4 | 1 |

Bridge Rectifiers (Continued)

| Products | V_{RRM} Maximum Repetitive Reverse Voltage (V) | $I_{F(AV)}$ Average Rectified Forward Current (A) | V_{FM} Maximum Instantaneous Forward Voltage (V) |
|-------------|--|---|--|
| KBU6A | 50 | 6 | 1 |
| KBU6B | 100 | 6 | 1 |
| KBU6D | 200 | 6 | 1 |
| KBU6G | 400 | 6 | 1 |
| KBU6J | 600 | 6 | 1 |
| KBU6K | 800 | 6 | 1 |
| KBU6M | 1000 | 6 | 1 |
| KBU8A | 50 | 8 | 1 |
| KBU8B | 100 | 8 | 1 |
| KBU8D | 200 | 8 | 1 |
| KBU8G | 400 | 8 | 1 |
| KBU8J | 600 | 8 | 1 |
| KBU8K | 800 | 8 | 1 |
| KBU8M | 1000 | 8 | 1 |
| SOIC | | | |
| MB1S | 100 | 0.5 | 1 |
| MB2S | 200 | 0.5 | 1 |
| MB4S | 400 | 0.5 | 1 |
| MB6S | 600 | 0.5 | 1 |
| MB8S | 800 | 0.5 | 1 |
| WOB | | | |
| 2W005G | 50 | 2 | 1.1 |
| 2W01G | 100 | 2 | 1.1 |
| 2W02G | 200 | 2 | 1.1 |
| 2W04G | 400 | 2 | 1.1 |
| 2W06G | 600 | 2 | 1.1 |
| 2W08G | 800 | 2 | 1.1 |
| 2W10G | 1000 | 2 | 1.1 |
| W005G | 50 | 1.5 | 1 |
| W01G | 100 | 1.5 | 1 |
| W02G | 200 | 1.5 | 1 |
| W04G | 400 | 1.5 | 1 |
| W06G | 600 | 1.5 | 1 |
| W08G | 800 | 1.5 | 1 |
| W10G | 1000 | 1.5 | 1 |

Transient Voltage Suppressors

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|--------------|---|--|------|--|--|--|---|------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| DO-15 | | | | | | | | | | |
| P6KE100A | 85.5 | 95 | 105 | 1 | 137 | 4.4 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE100CA | 85.5 | 95 | 105 | 1 | 137 | 4.4 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE10A | 8.55 | 9.5 | 10.5 | 1 | 14.5 | 41 | 10 | Axial-Lead | 600 | Unidirectional |
| P6KE10CA | 8.55 | 9.5 | 10.5 | 1 | 14.5 | 41 | 20 | Axial-Lead | 600 | Bidirectional |
| P6KE110A | 94 | 105 | 116 | 1 | 152 | 4 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE110CA | 94 | 105 | 116 | 1 | 152 | 4 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE11A | 9.4 | 10.5 | 11.6 | 1 | 15.6 | 38 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE11CA | 9.4 | 10.5 | 11.6 | 1 | 15.6 | 38 | 10 | Axial-Lead | 600 | Bidirectional |
| P6KE120A | 102 | 114 | 126 | 1 | 165 | 3.6 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE120CA | 102 | 114 | 126 | 1 | 165 | 3.6 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE12A | 10.2 | 11.4 | 12.6 | 1 | 16.7 | 36 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE12CA | 10.2 | 11.4 | 12.6 | 1 | 16.7 | 36 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE130A | 111 | 124 | 137 | 1 | 179 | 3.4 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE130CA | 111 | 124 | 137 | 1 | 179 | 3.4 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE13A | 11.1 | 12.4 | 13.7 | 1 | 18.2 | 33 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE13CA | 11.1 | 12.4 | 13.7 | 1 | 18.2 | 33 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE150A | 128 | 143 | 158 | 1 | 207 | 2.9 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE150CA | 128 | 143 | 158 | 1 | 207 | 2.9 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE15A | 12.8 | 14.3 | 15.8 | 1 | 21.2 | 28 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE15CA | 12.8 | 14.3 | 15.8 | 1 | 21.2 | 28 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE160A | 136 | 152 | 168 | 1 | 219 | 2.7 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE160CA | 136 | 152 | 168 | 1 | 219 | 2.7 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE16A | 13.6 | 15.2 | 16.8 | 1 | 22.5 | 27 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE16CA | 13.6 | 15.2 | 16.8 | 1 | 22.5 | 27 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE170A | 145 | 162 | 179 | 1 | 234 | 2.6 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE170CA | 145 | 162 | 179 | 1 | 234 | 2.6 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE180A | 154 | 171 | 189 | 1 | 246 | 2.4 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE180CA | 154 | 171 | 189 | 1 | 246 | 2.4 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE18A | 15.3 | 17.1 | 18.9 | 1 | 25.2 | 24 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE18CA | 15.3 | 17.1 | 18.9 | 1 | 25.2 | 24 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE200A | 171 | 190 | 210 | 1 | 274 | 2.2 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE200CA | 171 | 190 | 210 | 1 | 274 | 2.2 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE20A | 17.1 | 19 | 21 | 1 | 27.7 | 22 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE20CA | 17.1 | 19 | 21 | 1 | 27.7 | 22 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE220A | 185 | 209 | 231 | 1 | 328 | 1.9 | 5 | Axial-Lead | 600 | Unidirectional |

DISCRETE POWER

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|--|--|--|---|------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| P6KE220CA | 185 | 209 | 231 | 1 | 328 | 1.9 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE22A | 18.8 | 20.9 | 23.1 | 1 | 30.6 | 20 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE22CA | 18.8 | 20.9 | 23.1 | 1 | 30.6 | 20 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE24A | 20.5 | 22.8 | 25.2 | 1 | 33.2 | 18.1 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE24CA | 20.5 | 22.8 | 25.2 | 1 | 33.2 | 18.1 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE250A | 214 | 237 | 263 | 1 | 344 | 1.8 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE250CA | 214 | 237 | 263 | 1 | 344 | 1.8 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE27A | 23.1 | 25.7 | 28.4 | 1 | 37.5 | 16 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE27CA | 23.1 | 25.7 | 28.4 | 1 | 37.5 | 16 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE300A | 256 | 285 | 315 | 1 | 414 | 1.5 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE300CA | 256 | 285 | 315 | 1 | 414 | 1.5 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE30A | 25.6 | 28.5 | 31.5 | 1 | 41.4 | 14.5 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE30CA | 25.6 | 28.5 | 31.5 | 1 | 41.4 | 14.5 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE33A | 28.2 | 31.4 | 34.7 | 1 | 45.7 | 13.2 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE33CA | 28.2 | 31.4 | 34.7 | 1 | 45.7 | 13.2 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE350A | 300 | 332 | 368 | 1 | 482 | 1.3 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE350CA | 300 | 332 | 368 | 1 | 482 | 1.3 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE36A | 30.8 | 34.2 | 37.8 | 1 | 49.9 | 12 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE36CA | 30.8 | 34.2 | 37.8 | 1 | 49.9 | 12 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE39A | 33.3 | 37.1 | 41 | 1 | 53.9 | 11.2 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE39CA | 33.3 | 37.1 | 41 | 1 | 53.9 | 11.2 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE400A | 342 | 380 | 420 | 1 | 548 | 1.1 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE400CA | 342 | 380 | 420 | 1 | 548 | 1.1 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE43A | 36.8 | 40.9 | 45.2 | 1 | 59.3 | 10.1 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE43CA | 36.8 | 40.9 | 45.2 | 1 | 59.3 | 10.1 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE440A | 376 | 418 | 462 | 1 | 602 | 1 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE440CA | 376 | 418 | 462 | 1 | 602 | 1 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE47A | 40.2 | 44.7 | 49.4 | 1 | 64.8 | 9.3 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE47CA | 40.2 | 44.7 | 49.4 | 1 | 64.8 | 9.3 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE51A | 43.6 | 48.5 | 53.6 | 1 | 70.1 | 8.6 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE51CA | 43.6 | 48.5 | 53.6 | 1 | 70.1 | 8.6 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE56A | 47.8 | 53.2 | 58.8 | 1 | 77 | 7.8 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE56CA | 47.8 | 53.2 | 58.8 | 1 | 77 | 7.8 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE62A | 53 | 58.9 | 65.1 | 1 | 85 | 7.1 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE62CA | 53 | 58.9 | 65.1 | 1 | 85 | 7.1 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE68A | 58.1 | 64.6 | 71.4 | 1 | 92 | 6.5 | 5 | Axial-Lead | 600 | Unidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|--|--|--|---|------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| P6KE68CA | 58.1 | 64.6 | 71.4 | 1 | 92 | 6.5 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE6V8A | 5.8 | 6.45 | 7.14 | 10 | 10.5 | 57.1 | 1000 | Axial-Lead | 600 | Unidirectional |
| P6KE6V8CA | 5.8 | 6.45 | 7.14 | 10 | 10.5 | 57.1 | 2000 | Axial-Lead | 600 | Bidirectional |
| P6KE75A | 64.1 | 71.3 | 78.8 | 1 | 103 | 5.8 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE75CA | 64.1 | 71.3 | 78.8 | 1 | 103 | 5.8 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE7V5A | 6.4 | 7.13 | 7.88 | 1 | 11.3 | 53.1 | 500 | Axial-Lead | 600 | Unidirectional |
| P6KE7V5CA | 6.4 | 7.13 | 7.88 | 1 | 11.3 | 53.1 | 1000 | Axial-Lead | 600 | Bidirectional |
| P6KE82A | 70.1 | 77.9 | 86.1 | 1 | 113 | 5.3 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE82CA | 70.1 | 77.9 | 86.1 | 1 | 113 | 5.3 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE8V2A | 7.02 | 7.79 | 8.61 | 1 | 12.1 | 50 | 200 | Axial-Lead | 600 | Unidirectional |
| P6KE8V2CA | 7.02 | 7.79 | 8.61 | 1 | 12.1 | 50 | 400 | Axial-Lead | 600 | Bidirectional |
| P6KE91A | 77.8 | 86.5 | 95.5 | 1 | 125 | 4.8 | 5 | Axial-Lead | 600 | Unidirectional |
| P6KE91CA | 77.8 | 86.5 | 95.5 | 1 | 125 | 4.8 | 5 | Axial-Lead | 600 | Bidirectional |
| P6KE9V1A | 7.78 | 8.65 | 9.55 | 1 | 13.4 | 45 | 50 | Axial-Lead | 600 | Unidirectional |
| P6KE9V1CA | 7.78 | 8.65 | 9.55 | 1 | 13.4 | 45 | 100 | Axial-Lead | 600 | Bidirectional |
| SA100A | 100 | 111 | 123 | 1 | 162 | 3.1 | 1 | Axial-Lead | 500 | Unidirectional |
| SA100CA | 100 | 111 | 123 | 1 | 162 | 3.1 | 1 | Axial-Lead | 500 | Bidirectional |
| SA10A | 10 | 11.1 | 12.3 | 1 | 17 | 29.4 | 1 | Axial-Lead | 500 | Unidirectional |
| SA10CA | 10 | 11.1 | 12.3 | 1 | 17 | 29.4 | 1 | Axial-Lead | 500 | Bidirectional |
| SA110A | 110 | 122 | 135 | 1 | 177 | 2.8 | 1 | Axial-Lead | 500 | Unidirectional |
| SA110CA | 110 | 122 | 135 | 1 | 177 | 2.8 | 1 | Axial-Lead | 500 | Bidirectional |
| SA11A | 11 | 12.2 | 13.5 | 1 | 18.2 | 27.4 | 1 | Axial-Lead | 500 | Unidirectional |
| SA11CA | 11 | 12.2 | 13.5 | 1 | 18.2 | 27.4 | 1 | Axial-Lead | 500 | Bidirectional |
| SA120A | 120 | 133 | 147 | 1 | 193 | 2.7 | 1 | Axial-Lead | 500 | Unidirectional |
| SA120CA | 120 | 133 | 147 | 1 | 193 | 2.7 | 1 | Axial-Lead | 500 | Bidirectional |
| SA12A | 12 | 13.3 | 14.7 | 1 | 19.9 | 25.1 | 1 | Axial-Lead | 500 | Unidirectional |
| SA12CA | 12 | 13.3 | 14.7 | 1 | 19.9 | 25.1 | 1 | Axial-Lead | 500 | Bidirectional |
| SA130A | 130 | 144 | 159 | 1 | 209 | 2.4 | 1 | Axial-Lead | 500 | Unidirectional |
| SA130CA | 130 | 144 | 159 | 1 | 209 | 2.4 | 1 | Axial-Lead | 500 | Bidirectional |
| SA13A | 13 | 14.4 | 15.9 | 1 | 21.5 | 23.2 | 1 | Axial-Lead | 500 | Unidirectional |
| SA13CA | 13 | 14.4 | 15.9 | 1 | 21.5 | 23.2 | 1 | Axial-Lead | 500 | Bidirectional |
| SA14A | 14 | 15.6 | 17.2 | 1 | 23.2 | 21.5 | 1 | Axial-Lead | 500 | Unidirectional |
| SA14CA | 14 | 15.6 | 17.2 | 1 | 23.2 | 21.5 | 1 | Axial-Lead | 500 | Bidirectional |
| SA150A | 150 | 167 | 185 | 1 | 243 | 2.1 | 1 | Axial-Lead | 500 | Unidirectional |
| SA150CA | 150 | 167 | 185 | 1 | 243 | 2.1 | 1 | Axial-Lead | 500 | Bidirectional |
| SA15A | 15 | 16.7 | 18.5 | 1 | 24.4 | 20.6 | 1 | Axial-Lead | 500 | Unidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|---------------------|--|--|---|------------|----------------------|----------------|
| | | Min | Max | I _T (mA) | | | | | | |
| SA15CA | 15 | 16.7 | 18.5 | 1 | 24.4 | 20.6 | 1 | Axial-Lead | 500 | Bidirectional |
| SA160A | 160 | 178 | 197 | 1 | 259 | 1.9 | 1 | Axial-Lead | 500 | Unidirectional |
| SA160CA | 160 | 178 | 197 | 1 | 259 | 1.9 | 1 | Axial-Lead | 500 | Bidirectional |
| SA16A | 16 | 17.8 | 19.7 | 1 | 26 | 19.2 | 1 | Axial-Lead | 500 | Unidirectional |
| SA16CA | 16 | 17.8 | 19.7 | 1 | 26 | 19.2 | 1 | Axial-Lead | 500 | Bidirectional |
| SA170A | 170 | 189 | 209 | 1 | 275 | 1.8 | 1 | Axial-Lead | 500 | Unidirectional |
| SA170CA | 170 | 189 | 209 | 1 | 275 | 1.8 | 1 | Axial-Lead | 500 | Bidirectional |
| SA17A | 17 | 18.9 | 20.9 | 1 | 27.6 | 18.1 | 1 | Axial-Lead | 500 | Unidirectional |
| SA17CA | 17 | 18.9 | 20.9 | 1 | 27.6 | 18.1 | 1 | Axial-Lead | 500 | Bidirectional |
| SA18A | 18 | 20 | 22.1 | 1 | 29.2 | 17.2 | 1 | Axial-Lead | 500 | Unidirectional |
| SA18CA | 18 | 20 | 22.1 | 1 | 29.2 | 17.2 | 1 | Axial-Lead | 500 | Bidirectional |
| SA20A | 20 | 22.2 | 24.5 | 1 | 32.4 | 15.4 | 1 | Axial-Lead | 500 | Unidirectional |
| SA20CA | 20 | 22.2 | 24.5 | 1 | 32.4 | 15.4 | 1 | Axial-Lead | 500 | Bidirectional |
| SA22A | 22 | 24.4 | 26.9 | 1 | 35.5 | 14.1 | 1 | Axial-Lead | 500 | Unidirectional |
| SA22CA | 22 | 24.4 | 26.9 | 1 | 35.5 | 14.1 | 1 | Axial-Lead | 500 | Bidirectional |
| SA24A | 24 | 26.7 | 29.5 | 1 | 38.9 | 12.8 | 1 | Axial-Lead | 500 | Unidirectional |
| SA24CA | 24 | 26.7 | 29.5 | 1 | 38.9 | 12.8 | 1 | Axial-Lead | 500 | Bidirectional |
| SA26A | 26 | 28.9 | 31.9 | 1 | 42.1 | 11.9 | 1 | Axial-Lead | 500 | Unidirectional |
| SA26CA | 26 | 28.9 | 31.9 | 1 | 42.1 | 11.9 | 1 | Axial-Lead | 500 | Bidirectional |
| SA28A | 28 | 31.1 | 34.4 | 1 | 45.4 | 11 | 1 | Axial-Lead | 500 | Unidirectional |
| SA28CA | 28 | 31.1 | 34.4 | 1 | 45.4 | 11 | 1 | Axial-Lead | 500 | Bidirectional |
| SA30A | 30 | 33.3 | 36.8 | 1 | 48.4 | 10.3 | 1 | Axial-Lead | 500 | Unidirectional |
| SA30CA | 30 | 33.3 | 36.8 | 1 | 48.4 | 10.3 | 1 | Axial-Lead | 500 | Bidirectional |
| SA33A | 33 | 36.7 | 40.6 | 1 | 53.3 | 9.4 | 1 | Axial-Lead | 500 | Unidirectional |
| SA33CA | 33 | 36.7 | 40.6 | 1 | 53.3 | 9.4 | 1 | Axial-Lead | 500 | Bidirectional |
| SA36A | 36 | 40 | 44.2 | 1 | 58.1 | 8.6 | 1 | Axial-Lead | 500 | Unidirectional |
| SA36CA | 36 | 40 | 44.2 | 1 | 58.1 | 8.6 | 1 | Axial-Lead | 500 | Bidirectional |
| SA40A | 40 | 44.4 | 49.1 | 1 | 64.5 | 7.8 | 1 | Axial-Lead | 500 | Unidirectional |
| SA40CA | 40 | 44.4 | 49.1 | 1 | 64.5 | 7.8 | 1 | Axial-Lead | 500 | Bidirectional |
| SA43A | 43 | 47.8 | 52.8 | 1 | 69.4 | 7.2 | 1 | Axial-Lead | 500 | Unidirectional |
| SA43CA | 43 | 47.8 | 52.8 | 1 | 69.4 | 7.2 | 1 | Axial-Lead | 500 | Bidirectional |
| SA45A | 45 | 50 | 55.3 | 1 | 72.7 | 6.9 | 1 | Axial-Lead | 500 | Unidirectional |
| SA45CA | 45 | 50 | 55.3 | 1 | 72.7 | 6.9 | 1 | Axial-Lead | 500 | Bidirectional |
| SA48A | 48 | 53.3 | 58.9 | 1 | 77.4 | 6.5 | 1 | Axial-Lead | 500 | Unidirectional |
| SA48CA | 48 | 53.3 | 58.9 | 1 | 77.4 | 6.5 | 1 | Axial-Lead | 500 | Bidirectional |
| SA51A | 51 | 56.7 | 62.7 | 1 | 82.4 | 6.1 | 1 | Axial-Lead | 500 | Unidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|--|--|--|---|------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| SA51CA | 51 | 56.7 | 62.7 | 1 | 82.4 | 6.1 | 1 | Axial-Lead | 500 | Bidirectional |
| SA54A | 54 | 60 | 66.3 | 1 | 87.1 | 5.7 | 1 | Axial-Lead | 500 | Unidirectional |
| SA54CA | 54 | 60 | 66.3 | 1 | 87.1 | 5.7 | 1 | Axial-Lead | 500 | Bidirectional |
| SA58A | 58 | 64.4 | 71.2 | 1 | 93.6 | 5.3 | 1 | Axial-Lead | 500 | Unidirectional |
| SA58CA | 58 | 64.4 | 71.2 | 1 | 93.6 | 5.3 | 1 | Axial-Lead | 500 | Bidirectional |
| SA5V0A | 5 | 6.4 | 7 | 10 | 9.2 | 54.3 | 600 | Axial-Lead | 500 | Unidirectional |
| SA5V0CA | 5 | 6.4 | 7 | 10 | 9.2 | 54.3 | 1200 | Axial-Lead | 500 | Bidirectional |
| SA60A | 60 | 66.7 | 73.7 | 1 | 96.8 | 5.2 | 1 | Axial-Lead | 500 | Unidirectional |
| SA60CA | 60 | 66.7 | 73.7 | 1 | 96.8 | 5.2 | 1 | Axial-Lead | 500 | Bidirectional |
| SA64A | 64 | 71.1 | 78.6 | 1 | 103 | 4.9 | 1 | Axial-Lead | 500 | Unidirectional |
| SA64CA | 64 | 71.1 | 78.6 | 1 | 103 | 4.9 | 1 | Axial-Lead | 500 | Bidirectional |
| SA6V0A | 6 | 6.67 | 7.37 | 10 | 10.3 | 48.5 | 600 | Axial-Lead | 500 | Unidirectional |
| SA6V0CA | 6 | 6.67 | 7.37 | 10 | 10.3 | 48.5 | 1200 | Axial-Lead | 500 | Bidirectional |
| SA6V5A | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 44.7 | 400 | Axial-Lead | 500 | Unidirectional |
| SA6V5CA | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 44.7 | 800 | Axial-Lead | 500 | Bidirectional |
| SA70A | 70 | 77.8 | 86 | 1 | 113 | 4.4 | 1 | Axial-Lead | 500 | Unidirectional |
| SA70CA | 70 | 77.8 | 86 | 1 | 113 | 4.4 | 1 | Axial-Lead | 500 | Bidirectional |
| SA75A | 75 | 83.3 | 92.1 | 1 | 121 | 4.1 | 1 | Axial-Lead | 500 | Unidirectional |
| SA75CA | 75 | 83.3 | 92.1 | 1 | 121 | 4.1 | 1 | Axial-Lead | 500 | Bidirectional |
| SA78A | 78 | 86.7 | 95.8 | 1 | 126 | 4 | 1 | Axial-Lead | 500 | Unidirectional |
| SA78CA | 78 | 86.7 | 95.8 | 1 | 126 | 4 | 1 | Axial-Lead | 500 | Bidirectional |
| SA7V0A | 7 | 7.78 | 8.6 | 10 | 12 | 41.7 | 150 | Axial-Lead | 500 | Unidirectional |
| SA7V0CA | 7 | 7.78 | 8.6 | 10 | 12 | 41.7 | 300 | Axial-Lead | 500 | Bidirectional |
| SA7V5A | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 38.8 | 50 | Axial-Lead | 500 | Unidirectional |
| SA7V5CA | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 38.8 | 100 | Axial-Lead | 500 | Bidirectional |
| SA85A | 85 | 94.4 | 104 | 1 | 137 | 3.6 | 1 | Axial-Lead | 500 | Unidirectional |
| SA85CA | 85 | 94.4 | 104 | 1 | 137 | 3.6 | 1 | Axial-Lead | 500 | Bidirectional |
| SA8V0A | 8 | 8.89 | 9.83 | 1 | 13.6 | 36.7 | 25 | Axial-Lead | 500 | Unidirectional |
| SA8V0CA | 8 | 8.89 | 9.83 | 1 | 13.6 | 36.7 | 50 | Axial-Lead | 500 | Bidirectional |
| SA8V5A | 8.5 | 9.44 | 10.4 | 1 | 14.4 | 34.7 | 10 | Axial-Lead | 500 | Unidirectional |
| SA8V5CA | 8.5 | 9.44 | 10.4 | 1 | 14.4 | 34.7 | 20 | Axial-Lead | 500 | Bidirectional |
| SA90A | 90 | 100 | 111 | 1 | 146 | 3.4 | 1 | Axial-Lead | 500 | Unidirectional |
| SA90CA | 90 | 100 | 111 | 1 | 146 | 3.4 | 1 | Axial-Lead | 500 | Bidirectional |
| SA9V0A | 9 | 10 | 11.1 | 1 | 15.4 | 32.5 | 5 | Axial-Lead | 500 | Unidirectional |
| SA9V0CA | 9 | 10 | 11.1 | 1 | 15.4 | 32.5 | 10 | Axial-Lead | 500 | Bidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-----------------|---|--|------|--|--|--|---|------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| DO-201AE | | | | | | | | | | |
| 1V5KE100A | 85.5 | 95 | 105 | 1 | 137 | 11 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE100CA | 85.5 | 95 | 105 | 1 | 137 | 11 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE10A | 8.55 | 9.5 | 10.5 | 1 | 14.5 | 103 | 10 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE10CA | 8.55 | 9.5 | 10.5 | 1 | 14.5 | 103 | 20 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE110A | 94 | 106 | 116 | 1 | 152 | 9.9 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE110CA | 94 | 106 | 116 | 1 | 152 | 9.9 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE11A | 9.4 | 10.5 | 11.6 | 1 | 15.6 | 96.2 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE11CA | 9.4 | 10.5 | 11.6 | 1 | 15.6 | 96.2 | 10 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE120A | 102 | 114 | 126 | 1 | 165 | 9.1 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE120CA | 102 | 114 | 126 | 1 | 165 | 9.1 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE12A | 10.2 | 11.4 | 12.6 | 1 | 16.7 | 90 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE12CA | 10.2 | 11.4 | 12.6 | 1 | 16.7 | 90 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE130A | 111 | 124 | 137 | 1 | 179 | 8.4 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE130CA | 111 | 124 | 137 | 1 | 179 | 8.4 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE13A | 11.1 | 12.4 | 13.7 | 1 | 18.2 | 82 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE13CA | 11.1 | 12.4 | 13.7 | 1 | 18.2 | 82 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE150A | 128 | 143 | 158 | 1 | 207 | 7.2 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE150CA | 128 | 143 | 158 | 1 | 207 | 7.2 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE15A | 12.8 | 14.3 | 15.8 | 1 | 21.2 | 71 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE15CA | 12.8 | 14.3 | 15.8 | 1 | 21.2 | 71 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE160A | 136 | 152 | 168 | 1 | 219 | 6.8 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE160CA | 136 | 152 | 168 | 1 | 219 | 6.8 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE16A | 13.6 | 15.2 | 16.8 | 1 | 22.5 | 67 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE16CA | 13.6 | 15.2 | 16.8 | 1 | 22.5 | 67 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE170A | 145 | 162 | 179 | 1 | 234 | 6.4 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE170CA | 145 | 162 | 179 | 1 | 234 | 6.4 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE180A | 154 | 171 | 189 | 1 | 246 | 6.1 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE180CA | 154 | 171 | 189 | 1 | 246 | 6.1 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE18A | 15.3 | 17.1 | 18.9 | 1 | 26.2 | 59.5 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE18CA | 15.3 | 17.1 | 18.9 | 1 | 26.2 | 59.5 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE200A | 171 | 190 | 210 | 1 | 274 | 5.5 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE200CA | 171 | 190 | 210 | 1 | 274 | 5.5 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE20A | 17.1 | 19 | 21 | 1 | 27.7 | 54.2 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE20CA | 17.1 | 19 | 21 | 1 | 27.7 | 54.2 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE220A | 185 | 209 | 231 | 1 | 328 | 4.6 | 5 | Axial-Lead | 1500 | Unidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|--|--|--|---|------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| 1V5KE220CA | 185 | 209 | 231 | 1 | 328 | 4.6 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE22A | 18.8 | 20.9 | 23.1 | 1 | 30.6 | 49 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE22CA | 18.8 | 20.9 | 23.1 | 1 | 30.6 | 49 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE24A | 20.5 | 22.8 | 25.2 | 1 | 33.2 | 45.2 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE24CA | 20.5 | 22.8 | 25.2 | 1 | 33.2 | 45.2 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE250A | 214 | 237 | 263 | 1 | 344 | 4.5 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE250CA | 214 | 237 | 263 | 1 | 344 | 4.5 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE27A | 23.1 | 25.7 | 28.4 | 1 | 37.5 | 40 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE27CA | 23.1 | 25.7 | 28.4 | 1 | 37.5 | 40 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE300A | 256 | 285 | 315 | 1 | 414 | 3.8 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE300CA | 256 | 285 | 315 | 1 | 414 | 3.8 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE30A | 25.6 | 28.5 | 31.5 | 1 | 41.4 | 36.2 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE30CA | 25.6 | 28.5 | 31.5 | 1 | 41.4 | 36.2 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE33A | 28.2 | 31.4 | 34.7 | 1 | 45.7 | 33 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE33CA | 28.2 | 31.4 | 34.7 | 1 | 45.7 | 33 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE350A | 300 | 333 | 368 | 1 | 482 | 3.2 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE350CA | 300 | 333 | 368 | 1 | 482 | 3.2 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE36A | 30.8 | 34.2 | 37.8 | 1 | 49.9 | 30.1 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE36CA | 30.8 | 34.2 | 37.8 | 1 | 49.9 | 30.1 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE39A | 33.3 | 37.1 | 41 | 1 | 53.9 | 28 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE39CA | 33.3 | 37.1 | 41 | 1 | 53.9 | 28 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE400A | 342 | 380 | 420 | 1 | 548 | 2.8 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE400CA | 342 | 380 | 420 | 1 | 548 | 2.8 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE43A | 36.8 | 40.9 | 45.2 | 1 | 59.3 | 25.3 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE43CA | 36.8 | 40.9 | 45.2 | 1 | 59.3 | 25.3 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE440A | 376 | 418 | 462 | 1 | 602 | 2.6 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE440CA | 376 | 418 | 462 | 1 | 602 | 2.6 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE47A | 40.2 | 44.7 | 49.4 | 1 | 64.8 | 23.2 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE47CA | 40.2 | 44.7 | 49.4 | 1 | 64.8 | 23.2 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE51A | 43.6 | 48.5 | 53.6 | 1 | 70.1 | 21.4 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE51CA | 43.6 | 48.5 | 53.6 | 1 | 70.1 | 21.4 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE56A | 47.8 | 53.2 | 58.8 | 1 | 77 | 19.5 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE56CA | 47.8 | 53.2 | 58.8 | 1 | 77 | 19.5 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE62A | 53 | 58.9 | 65.1 | 1 | 85 | 17.7 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE62CA | 53 | 58.9 | 65.1 | 1 | 85 | 17.7 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE68A | 58.1 | 64.6 | 71.4 | 1 | 92 | 16.3 | 5 | Axial-Lead | 1500 | Unidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|--|--|--|---|---------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| 1V5KE68CA | 58.1 | 64.6 | 71.4 | 1 | 92 | 16.3 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE6V8A | 5.8 | 6.45 | 7.14 | 10 | 10.5 | 142 | 1000 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE6V8CA | 5.8 | 6.45 | 7.14 | 10 | 10.5 | 143 | 2000 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE75A | 64.1 | 71.3 | 78.8 | 1 | 104 | 14.6 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE75CA | 64.1 | 71.3 | 78.8 | 1 | 104 | 14.6 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE7V5A | 6.4 | 7.13 | 7.88 | 10 | 11.3 | 133 | 500 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE7V5CA | 6.4 | 7.13 | 7.88 | 10 | 11.3 | 133 | 1000 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE82A | 70.1 | 77.9 | 86.1 | 1 | 113 | 13.3 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE82CA | 70.1 | 77.9 | 86.1 | 1 | 113 | 13.3 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE8V2A | 7.02 | 7.79 | 8.61 | 10 | 12.1 | 124 | 200 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE8V2CA | 7.02 | 7.79 | 8.61 | 10 | 12.1 | 124 | 400 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE91A | 77.8 | 86.5 | 95.5 | 1 | 125 | 12 | 5 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE91CA | 77.8 | 86.5 | 95.5 | 1 | 125 | 12 | 5 | Axial-Lead | 1500 | Bidirectional |
| 1V5KE9V1A | 7.78 | 8.65 | 9.55 | 1 | 13.4 | 112 | 50 | Axial-Lead | 1500 | Unidirectional |
| 1V5KE9V1CA | 7.78 | 8.65 | 9.55 | 1 | 13.4 | 112 | 100 | Axial-Lead | 1500 | Bidirectional |
| SMB | | | | | | | | | | |
| SMBJ100A | 100 | 111 | 123 | 1 | 162 | 3.7 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ100CA | 100 | 111 | 123 | 1 | 162 | 3.7 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ10A | 10 | 11.1 | 12.8 | 1 | 17 | 35.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ10CA | 10 | 11.1 | 12.8 | 1 | 17 | 35.3 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ110A | 110 | 122 | 135 | 1 | 177 | 3.4 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ110CA | 110 | 122 | 135 | 1 | 177 | 3.4 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ11A | 11 | 12.2 | 13.5 | 1 | 18.2 | 33 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ11CA | 11 | 12.2 | 13.5 | 1 | 18.2 | 33 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ120A | 120 | 133 | 147 | 1 | 193 | 3.1 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ120CA | 120 | 133 | 147 | 1 | 193 | 3.1 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ12A | 12 | 13.3 | 14.7 | 1 | 19.9 | 30.2 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ12A933 | 12 | 13.2 | 13.8 | 1 | 15.6 | 17.5 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ12CA | 12 | 13.3 | 14.7 | 1 | 19.9 | 30.2 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ130A | 130 | 144 | 159 | 1 | 209 | 2.9 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ130CA | 130 | 144 | 159 | 1 | 209 | 2.9 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ13A | 13 | 14.4 | 15.9 | 1 | 21.5 | 27.9 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ13A100 | 13 | 14.4 | 15.9 | 1 | 21.5 | 27.9 | 0 | Surface Mount | 600 | Unidirectional |
| SMBJ13CA | 13 | 14.4 | 15.9 | 1 | 21.5 | 27.9 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ14A | 14 | 15.6 | 17.2 | 1 | 23.2 | 25.9 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ14CA | 14 | 15.6 | 17.2 | 1 | 23.2 | 25.9 | 5 | Surface Mount | 600 | Bidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|--|--|--|---|---------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| SMBJ150A | 150 | 167 | 185 | 1 | 243 | 2.5 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ150CA | 150 | 167 | 185 | 1 | 243 | 2.5 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ15A | 15 | 16.7 | 18.5 | 1 | 24.4 | 24.6 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ15CA | 15 | 16.7 | 18.5 | 1 | 24.4 | 24.6 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ160A | 160 | 178 | 197 | 1 | 259 | 2.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ160CA | 160 | 178 | 197 | 1 | 259 | 2.3 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ16A | 16 | 17.8 | 19.7 | 1 | 26 | 23.1 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ16CA | 16 | 17.8 | 19.7 | 1 | 26 | 23.1 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ170A | 170 | 189 | 209 | 1 | 275 | 2.2 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ170CA | 170 | 189 | 209 | 1 | 275 | 2.2 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ17A | 17 | 18.9 | 20.9 | 1 | 27.6 | 21.7 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ17CA | 17 | 18.9 | 20.9 | 1 | 27.6 | 21.7 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ18A | 18 | 20 | 22.1 | 1 | 29.2 | 20.5 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ18CA | 18 | 20 | 22.1 | 1 | 29.2 | 20.5 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ20A | 20 | 22.2 | 24.5 | 1 | 32.4 | 18.5 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ20CA | 20 | 22.2 | 24.5 | 1 | 32.4 | 18.5 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ22A | 22 | 24.4 | 26.9 | 1 | 35.5 | 16.9 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ22CA | 22 | 24.4 | 26.9 | 1 | 35.5 | 16.9 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ24A | 24 | 26.7 | 29.5 | 1 | 38.9 | 15.4 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ24CA | 24 | 26.7 | 29.5 | 1 | 38.9 | 15.4 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ26A | 26 | 28.9 | 31.9 | 1 | 42.1 | 14.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ26CA | 26 | 28.9 | 31.9 | 1 | 42.1 | 14.3 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ28A | 28 | 31.1 | 34.4 | 1 | 45.4 | 13.2 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ28CA | 28 | 31.1 | 34.4 | 1 | 45.4 | 13.2 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ30A | 30 | 33.3 | 36.8 | 1 | 48.4 | 12.4 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ30CA | 30 | 33.3 | 36.8 | 1 | 48.4 | 12.4 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ33A | 33 | 36.7 | 40.6 | 1 | 53.3 | 11.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ33CA | 33 | 36.7 | 40.6 | 1 | 53.3 | 11.3 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ36A | 36 | 40 | 44.2 | 1 | 58.1 | 10.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ36CA | 36 | 40 | 44.2 | 1 | 58.1 | 10.3 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ40A | 40 | 44.4 | 49.1 | 1 | 64.5 | 9.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ40CA | 40 | 44.4 | 49.1 | 1 | 64.5 | 9.3 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ43A | 43 | 47.8 | 52.8 | 1 | 69.4 | 8.6 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ43CA | 43 | 47.8 | 52.8 | 1 | 69.4 | 8.6 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ45A | 45 | 50 | 55.3 | 1 | 72.7 | 8.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ45CA | 45 | 50 | 55.3 | 1 | 72.7 | 8.3 | 5 | Surface Mount | 600 | Bidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|---------------------|--|--|---|---------------|----------------------|----------------|
| | | Min | Max | I _T (mA) | | | | | | |
| SMBJ48A | 48 | 53.3 | 58.9 | 1 | 77.4 | 7.8 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ48CA | 48 | 53.3 | 58.9 | 1 | 77.4 | 7.8 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ51A | 51 | 56.7 | 62.7 | 1 | 82.4 | 7.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ51CA | 51 | 56.7 | 62.7 | 1 | 82.4 | 7.3 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ54A | 54 | 60 | 66.3 | 1 | 87.1 | 6.9 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ54CA | 54 | 60 | 66.3 | 1 | 87.1 | 6.9 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ58A | 58 | 64.4 | 71.2 | 1 | 93.6 | 6.4 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ58CA | 58 | 64.4 | 71.2 | 1 | 93.6 | 6.4 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ5V0A | 5 | 6.4 | 7 | 10 | 9.2 | 65.2 | 800 | Surface Mount | 600 | Unidirectional |
| SMBJ5V0CA | 5 | 6.4 | 7 | 10 | 9.2 | 65.2 | 1600 | Surface Mount | 600 | Bidirectional |
| SMBJ60A | 60 | 66.7 | 73.7 | 1 | 96.8 | 6.2 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ60CA | 60 | 66.7 | 73.7 | 1 | 96.8 | 6.2 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ64A | 64 | 71.1 | 78.6 | 1 | 103 | 5.8 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ64CA | 64 | 71.1 | 78.6 | 1 | 103 | 5.8 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ6V0A | 6 | 6.67 | 7.37 | 10 | 10.3 | 58.3 | 800 | Surface Mount | 600 | Unidirectional |
| SMBJ6V0CA | 6 | 6.67 | 7.37 | 10 | 10.3 | 58.3 | 1600 | Surface Mount | 600 | Bidirectional |
| SMBJ6V5A | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 53.6 | 500 | Surface Mount | 600 | Unidirectional |
| SMBJ6V5CA | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 53.6 | 1000 | Surface Mount | 600 | Bidirectional |
| SMBJ70A | 70 | 77.8 | 86 | 1 | 113 | 5.3 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ70CA | 70 | 77.8 | 86 | 1 | 113 | 5.3 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ75A | 75 | 83.3 | 92.1 | 1 | 121 | 5 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ75CA | 75 | 83.3 | 92.1 | 1 | 121 | 5 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ78A | 78 | 86.7 | 95.8 | 1 | 126 | 4.8 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ78CA | 78 | 86.7 | 95.8 | 1 | 126 | 4.8 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ7V0A | 7 | 7.78 | 8.6 | 10 | 12 | 50 | 200 | Surface Mount | 600 | Unidirectional |
| SMBJ7V0CA | 7 | 7.78 | 8.6 | 10 | 12 | 50 | 400 | Surface Mount | 600 | Bidirectional |
| SMBJ7V5A | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 46.5 | 100 | Surface Mount | 600 | Unidirectional |
| SMBJ7V5CA | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 46.5 | 200 | Surface Mount | 600 | Bidirectional |
| SMBJ85A | 85 | 94.4 | 104 | 1 | 137 | 4.4 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ85CA | 85 | 94.4 | 104 | 1 | 137 | 4.4 | 5 | Surface Mount | 600 | Bidirectional |
| SMBJ8V0A | 8 | 8.89 | 9.83 | 1 | 13.6 | 44.1 | 50 | Surface Mount | 600 | Unidirectional |
| SMBJ8V0CA | 8 | 8.89 | 9.83 | 1 | 13.6 | 44.1 | 100 | Surface Mount | 600 | Bidirectional |
| SMBJ8V5A | 8.5 | 9.44 | 10.4 | 1 | 14.4 | 41.7 | 20 | Surface Mount | 600 | Unidirectional |
| SMBJ8V5CA | 8.5 | 9.44 | 10.4 | 1 | 14.4 | 41.7 | 40 | Surface Mount | 600 | Bidirectional |
| SMBJ90A | 90 | 100 | 111 | 1 | 146 | 4.1 | 5 | Surface Mount | 600 | Unidirectional |
| SMBJ90CA | 90 | 100 | 111 | 1 | 146 | 4.1 | 5 | Surface Mount | 600 | Bidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|--|--|--|---|---------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| SMBJ9V0A | 9 | 10 | 11.1 | 1 | 15.4 | 39 | 10 | Surface Mount | 600 | Unidirectional |
| SMBJ9V0CA | 9 | 10 | 11.1 | 1 | 15.4 | 39 | 20 | Surface Mount | 600 | Bidirectional |
| SMC | | | | | | | | | | |
| SMCJ100A | 100 | 111 | 123 | 1 | 162 | 9.3 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ100CA | 100 | 111 | 123 | 1 | 162 | 9.3 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ10A | 10 | 11.1 | 12.3 | 1 | 17 | 88.2 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ10CA | 10 | 11.1 | 12.3 | 1 | 17 | 88.2 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ110A | 110 | 122 | 135 | 1 | 177 | 8.5 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ110CA | 110 | 122 | 135 | 1 | 177 | 8.5 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ11A | 11 | 12.2 | 13.5 | 1 | 18.2 | 82.4 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ11CA | 11 | 12.2 | 13.5 | 1 | 18.2 | 82.4 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ120A | 120 | 133 | 147 | 1 | 193 | 7.8 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ120CA | 120 | 133 | 147 | 1 | 193 | 7.8 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ12A | 12 | 13.3 | 14.7 | 1 | 19.9 | 75.3 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ12CA | 12 | 13.3 | 14.7 | 1 | 19.9 | 75.3 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ130A | 130 | 144 | 159 | 1 | 209 | 7.2 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ130CA | 130 | 144 | 159 | 1 | 209 | 7.2 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ13A | 13 | 14.4 | 15.9 | 1 | 21.5 | 69.8 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ13CA | 13 | 14.4 | 15.9 | 1 | 21.5 | 69.8 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ14A | 14 | 15.6 | 17.2 | 1 | 23.2 | 64.7 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ14CA | 14 | 15.6 | 17.2 | 1 | 23.2 | 64.7 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ150A | 150 | 167 | 185 | 1 | 243 | 6.2 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ150CA | 150 | 167 | 185 | 1 | 243 | 6.2 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ15A | 15 | 16.7 | 18.5 | 1 | 24.4 | 61.5 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ15CA | 15 | 16.7 | 18.5 | 1 | 24.4 | 61.5 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ160A | 160 | 178 | 197 | 1 | 259 | 5.8 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ160CA | 160 | 178 | 197 | 1 | 259 | 5.8 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ16A | 16 | 17.8 | 19.7 | 1 | 26 | 57.7 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ16CA | 16 | 17.8 | 19.7 | 1 | 26 | 57.7 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ170A | 170 | 189 | 209 | 1 | 275 | 5.5 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ170CA | 170 | 189 | 209 | 1 | 275 | 5.5 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ17A | 17 | 18.9 | 20.9 | 1 | 27.6 | 54.3 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ17CA | 17 | 18.9 | 20.9 | 1 | 27.6 | 54.3 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ18A | 18 | 20 | 22.1 | 1 | 29.2 | 51.4 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ18CA | 18 | 20 | 22.1 | 1 | 29.2 | 51.4 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ20A | 20 | 22.2 | 24.5 | 1 | 32.4 | 46.3 | 5 | Surface Mount | 1500 | Unidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|------|---------------------|--|--|---|---------------|----------------------|----------------|
| | | Min | Max | I _T (mA) | | | | | | |
| SMCJ20CA | 20 | 22.2 | 24.5 | 1 | 32.4 | 46.3 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ22A | 22 | 24.4 | 26.9 | 1 | 35.5 | 42.3 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ22CA | 22 | 24.4 | 26.9 | 1 | 35.5 | 42.3 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ24A | 24 | 26.7 | 29.5 | 1 | 38.9 | 38.6 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ24CA | 24 | 26.7 | 29.5 | 1 | 38.9 | 38.6 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ26A | 26 | 28.9 | 31.9 | 1 | 42.1 | 35.6 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ26CA | 26 | 28.9 | 31.9 | 1 | 42.1 | 35.6 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ28A | 28 | 31.1 | 34.4 | 1 | 45.4 | 33 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ28CA | 28 | 31.1 | 34.4 | 1 | 45.4 | 33 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ30A | 30 | 33.3 | 36.8 | 1 | 48.4 | 31 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ30CA | 30 | 33.3 | 36.8 | 1 | 48.4 | 31 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ33A | 33 | 36.7 | 40.6 | 1 | 53.3 | 28.1 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ33CA | 33 | 36.7 | 40.6 | 1 | 53.3 | 28.1 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ36A | 36 | 40 | 44.2 | 1 | 58.1 | 25.8 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ36CA | 36 | 40 | 44.2 | 1 | 58.1 | 25.8 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ40A | 40 | 44.4 | 49.1 | 1 | 64.5 | 23.3 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ40CA | 40 | 44.4 | 49.1 | 1 | 64.5 | 23.3 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ43A | 43 | 47.8 | 52.8 | 1 | 69.4 | 21.6 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ43CA | 43 | 47.8 | 52.8 | 1 | 69.4 | 21.6 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ45A | 45 | 50 | 55.3 | 1 | 72.7 | 20.6 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ45CA | 45 | 50 | 55.3 | 1 | 72.7 | 20.6 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ48A | 48 | 53.3 | 58.9 | 1 | 77.4 | 19.4 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ48CA | 48 | 53.3 | 58.9 | 1 | 77.4 | 19.4 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ51A | 51 | 56.7 | 62.7 | 1 | 82.4 | 18.2 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ51CA | 51 | 56.7 | 62.7 | 1 | 82.4 | 18.2 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ54A | 54 | 60 | 66.3 | 1 | 87.1 | 17.2 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ54CA | 54 | 60 | 66.3 | 1 | 87.1 | 17.2 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ58A | 58 | 64.4 | 71.2 | 1 | 93.6 | 16 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ58CA | 58 | 64.4 | 71.2 | 1 | 93.6 | 16 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ5V0A | 5 | 6.4 | 7 | 10 | 9.2 | 163 | 1000 | Surface Mount | 1500 | Unidirectional |
| SMCJ5V0CA | 5 | 6.4 | 7 | 10 | 9.2 | 163 | 2000 | Surface Mount | 1500 | Bidirectional |
| SMCJ60A | 60 | 66.7 | 73.7 | 1 | 96.8 | 15.5 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ60CA | 60 | 66.7 | 73.7 | 1 | 96.8 | 15.5 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ64A | 64 | 71.1 | 78.6 | 1 | 1.3 | 14.6 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ64CA | 64 | 71.1 | 78.6 | 1 | 103 | 14.6 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ6V0A | 6 | 6.67 | 7.37 | 10 | 10.3 | 145.6 | 1000 | Surface Mount | 1500 | Unidirectional |

Transient Voltage Suppressors (Continued)

| Part Number | V _{RWM} Reverse Stand-off Voltage (V) | V _{BR} Breakdown Voltage (V) | | Test Condition I _T (mA) | V _C Max Clamping Voltage @ I _{PPM} (V) | I _{PPM} Max Peak Pulse Surge Current (A) | I _R Max Reverse Leakage @ V _{RWM} (µA) | Type | P _{PPM} (W) | Direction |
|-------------|---|--|-------|--|--|--|---|---------------|----------------------|----------------|
| | | Min | Max | | | | | | | |
| SMCJ6V0CA | 6 | 6.67 | 7.37 | 10 | 10.3 | 145.6 | 2000 | Surface Mount | 1500 | Bidirectional |
| SMCJ6V5A | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 133.9 | 500 | Surface Mount | 1500 | Unidirectional |
| SMCJ6V5CA | 6.5 | 7.22 | 7.98 | 10 | 11.2 | 133.9 | 1000 | Surface Mount | 1500 | Bidirectional |
| SMCJ70A | 70 | 77.8 | 86 | 1 | 113 | 13.3 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ70CA | 70 | 77.8 | 86 | 1 | 113 | 13.3 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ75A | 75 | 83.3 | 92.1 | 1 | 121 | 12.4 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ75CA | 75 | 83.3 | 92.1 | 1 | 121 | 12.4 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ78A | 78 | 86.7 | 95.8 | 1 | 126 | 11.9 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ78CA | 78 | 86.7 | 95.8 | 1 | 126 | 11.9 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ7V0A | 7 | 7.78 | 8.6 | 10 | 12 | 125 | 200 | Surface Mount | 1500 | Unidirectional |
| SMCJ7V0CA | 7 | 7.78 | 8.6 | 10 | 12 | 125 | 400 | Surface Mount | 1500 | Bidirectional |
| SMCJ7V5A | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 116.3 | 100 | Surface Mount | 1500 | Unidirectional |
| SMCJ7V5CA | 7.5 | 8.33 | 9.21 | 1 | 12.9 | 116.3 | 200 | Surface Mount | 1500 | Bidirectional |
| SMCJ85A | 85 | 94.4 | 104 | 1 | 137 | 10.9 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ85CA | 85 | 94.4 | 104 | 1 | 137 | 10.9 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ8V0A | 8 | 8.89 | 9.83 | 1 | 13.6 | 110.3 | 50 | Surface Mount | 1500 | Unidirectional |
| SMCJ8V0CA | 8 | 8.89 | 9.83 | 1 | 13.6 | 110.3 | 100 | Surface Mount | 1500 | Bidirectional |
| SMCJ8V5A | 8.5 | 9.44 | 10.4 | 1 | 14.4 | 104.2 | 20 | Surface Mount | 1500 | Unidirectional |
| SMCJ8V5CA | 8.5 | 9.44 | 10.4 | 1 | 14.4 | 104.2 | 40 | Surface Mount | 1500 | Bidirectional |
| SMCJ90A | 90 | 100 | 111.1 | 1 | 146 | 10.3 | 5 | Surface Mount | 1500 | Unidirectional |
| SMCJ90CA | 90 | 100 | 111.1 | 1 | 146 | 10.3 | 5 | Surface Mount | 1500 | Bidirectional |
| SMCJ9V0A | 9 | 10 | 11.1 | 1 | 15.4 | 97.4 | 10 | Surface Mount | 1500 | Unidirectional |
| SMCJ9V0CA | 9 | 10 | 11.1 | 1 | 15.4 | 97.4 | 20 | Surface Mount | 1500 | Bidirectional |

Zener Diodes

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|--------------|--|---|----------------------------|
| DO-35 | | | |
| 1N4678 | 1.8 | 0.5 | – |
| 1N4679 | 2 | 0.5 | – |
| 1N4680 | 2.2 | 0.5 | – |
| 1N4681 | 2.4 | 0.5 | – |
| 1N4370A | 2.4 | 0.5 | 30 |
| 1N5221B | 2.4 | 0.5 | 30 |
| 1N5985B | 2.4 | 0.5 | 100 |
| BZX79C2V4 | 2.4 | 0.5 | 100 |
| BZX55C2V4 | 2.42 | 0.5 | 85 |
| 1N5222B | 2.5 | 0.5 | 30 |
| 1N4682 | 2.57 | 0.5 | – |
| 1N4371A | 2.7 | 0.5 | 30 |
| 1N5223B | 2.7 | 0.5 | 30 |
| 1N5986B | 2.7 | 0.5 | 100 |
| BZX55C2V7 | 2.7 | 0.5 | 85 |
| BZX79C2V7 | 2.7 | 0.5 | 100 |
| 1N5224B | 2.8 | 0.5 | 30 |
| 1N4372A | 3 | 0.5 | 29 |
| 1N5225B | 3 | 0.5 | 29 |
| 1N5987B | 3 | 0.5 | 95 |
| BZX55C3V0 | 3 | 0.5 | 85 |
| BZX79C3V0 | 3 | 0.5 | 95 |
| 1N4684 | 3.14 | 0.5 | – |
| 1N5226B | 3.3 | 0.5 | 28 |
| 1N5988B | 3.3 | 0.5 | 95 |
| 1N746A | 3.3 | 0.5 | 28 |
| 1N746A | 3.3 | 0.5 | 28 |
| BZX55C3V | 3.3 | 0.5 | 85 |
| BZX55C3V | 3.3 | 0.5 | 85 |
| BZX79C3V | 3.3 | 0.5 | 85 |
| BZX79C3V | 3.3 | 0.5 | 85 |
| 1N4685 | 3.42 | 0.5 | – |
| 1N4683 | 3.6 | 0.5 | – |
| 1N5227B | 3.6 | 0.5 | 24 |
| 1N5989B | 3.6 | 0.5 | 90 |
| 1N747A | 3.6 | 0.5 | 24 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|-----------|--|---|----------------------------|
| 1N747A | 3.6 | 0.5 | 24 |
| BZX55C3V6 | 3.6 | 0.5 | 85 |
| BZX55C3V6 | 3.6 | 0.5 | 85 |
| BZX79C3V6 | 3.6 | 0.5 | 85 |
| BZX79C3V6 | 3.6 | 0.5 | 85 |
| 1N4686 | 3.71 | 0.5 | – |
| 1N5228B | 3.9 | 0.5 | 23 |
| 1N5990B | 3.9 | 0.5 | 90 |
| 1N748A | 3.9 | 0.5 | 23 |
| 1N748A | 3.9 | 0.5 | 23 |
| BZX55C3V9 | 3.9 | 0.5 | 85 |
| BZX55C3V9 | 3.9 | 0.5 | 85 |
| BZX79C3V9 | 3.9 | 0.5 | 85 |
| BZX79C3V9 | 3.9 | 0.5 | 85 |
| 1N4687 | 4.09 | 0.5 | – |
| 1N5229B | 4.3 | 0.5 | 22 |
| 1N5991B | 4.3 | 0.5 | 88 |
| 1N749A | 4.3 | 0.5 | 22 |
| 1N749A | 4.3 | 0.5 | 22 |
| BZX55C4V3 | 4.3 | 0.5 | 75 |
| BZX55C4V3 | 4.3 | 0.5 | 75 |
| BZX79C4V3 | 4.3 | 0.5 | 75 |
| BZX79C4V3 | 4.3 | 0.5 | 75 |
| 1N4688 | 4.47 | 0.5 | – |
| 1N4689 | 4.47 | 0.5 | – |
| 1N5230B | 4.7 | 0.5 | 19 |
| 1N5992B | 4.7 | 0.5 | 70 |
| 1N750A | 4.7 | 0.5 | 19 |
| 1N750A | 4.7 | 0.5 | 19 |
| BZX55C4V7 | 4.7 | 0.5 | 60 |
| BZX55C4V7 | 4.7 | 0.5 | 60 |
| BZX79C4V7 | 4.7 | 0.5 | 60 |
| BZX79C4V7 | 4.7 | 0.5 | 60 |
| 1N5231B | 5.1 | 0.5 | 17 |
| 1N5993B | 5.1 | 0.5 | 50 |
| 1N751A | 5.1 | 0.5 | 17 |
| 1N751A | 5.1 | 0.5 | 17 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|------------|--|---|----------------------------|
| BZX55C5V1 | 5.1 | 0.5 | 35 |
| BZX55C5V1 | 5.1 | 0.5 | 35 |
| BZX79C5V1 | 5.1 | 0.5 | 35 |
| BZX79C5V1 | 5.1 | 0.5 | 35 |
| 1N5231C | 5.2 | 0.5 | 17 |
| 1N4690 | 5.32 | 0.5 | – |
| 1N5232B | 5.6 | 0.5 | 11 |
| 1N5994B | 5.6 | 0.5 | 25 |
| 1N752A | 5.6 | 0.5 | 11 |
| 1N752A | 5.6 | 0.5 | 11 |
| BZX55C5V6 | 5.6 | 0.5 | 25 |
| BZX55C5V6 | 5.6 | 0.5 | 25 |
| BZX79C5V6 | 5.6 | 0.5 | 25 |
| BZX79C5V6 | 5.6 | 0.5 | 25 |
| 1N4691 | 5.89 | 0.5 | – |
| 1N5233B | 6 | 0.5 | 7 |
| 1N5234B | 6.2 | 0.5 | 7 |
| 1N5995B | 6.2 | 0.5 | 10 |
| 1N753A | 6.2 | 0.5 | 7 |
| 1N753A | 6.2 | 0.5 | 7 |
| BZX55C6V2 | 6.2 | 0.5 | 10 |
| BZX55CT6V8 | 6.2 | 0.5 | 8 |
| BZX79C6V2 | 6.2 | 0.5 | 10 |
| BZX79C6V2 | 6.2 | 0.5 | 10 |
| 1N4692 | 6.45 | 0.5 | – |
| 1N5235B | 6.8 | 0.5 | 5 |
| 1N5235BT | 6.8 | 0.5 | 5 |
| 1N5996B | 6.8 | 0.5 | 8 |
| 1N754A | 6.8 | 0.5 | 5 |
| 1N754AT | 6.8 | 0.5 | 5 |
| 1N957B | 6.8 | 0.5 | 4.5 |
| 1N957BT | 6.8 | 0.5 | 4.5 |
| BZX55C6V8 | 6.8 | 0.5 | 8 |
| BZX55CT7V5 | 6.8 | 0.5 | 7 |
| BZX79C6V8 | 6.8 | 0.5 | 8 |
| BZX79C6V8 | 6.8 | 0.5 | 8 |
| 1N4693 | 7.13 | 0.5 | – |
| 1N5236B | 7.5 | 0.5 | 6 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|------------|--|---|----------------------------|
| 1N5236BT | 7.5 | 0.5 | 6 |
| 1N5997B | 7.5 | 0.5 | 7 |
| 1N755A | 7.5 | 0.5 | 6 |
| 1N755AT | 7.5 | 0.5 | 6 |
| 1N958B | 7.5 | 0.5 | 5.5 |
| 1N958BT | 7.5 | 0.5 | 5.5 |
| BZX55C7V5 | 7.5 | 0.5 | 7 |
| BZX79C7V5 | 7.5 | 0.5 | 7 |
| BZX79C7V5 | 7.5 | 0.5 | 7 |
| 1N4694 | 7.79 | 0.5 | – |
| 1N5237B | 8.2 | 0.5 | 8 |
| 1N5237BT | 8.2 | 0.5 | 8 |
| 1N5998B | 8.2 | 0.5 | 7 |
| 1N756A | 8.2 | 0.5 | 8 |
| 1N756AT | 8.2 | 0.5 | 8 |
| 1N959B | 8.2 | 0.5 | 6.5 |
| 1N959BT | 8.2 | 0.5 | 6.5 |
| BZX55C8V2 | 8.2 | 0.5 | 7 |
| BZX55CT8V2 | 8.2 | 0.5 | 7 |
| BZX79C8V2 | 8.2 | 0.5 | 7 |
| BZX79C8V2 | 8.2 | 0.5 | 7 |
| 1N4695 | 8.27 | 0.5 | – |
| 1N4696 | 8.27 | 0.5 | – |
| 1N5238B | 8.7 | 0.5 | 8 |
| 1N5238BT | 8.7 | 0.5 | 8 |
| BZX79CT9V1 | 9.05 | 0.5 | 15 |
| 1N5239B | 9.1 | 0.5 | 10 |
| 1N5239BT | 9.1 | 0.5 | 10 |
| 1N5999B | 9.1 | 0.5 | 10 |
| 1N757A | 9.1 | 0.5 | 10 |
| 1N757AT | 9.1 | 0.5 | 10 |
| 1N960B | 9.1 | 0.5 | 7.5 |
| 1N960BT | 9.1 | 0.5 | 7.5 |
| BZX55C9V1 | 9.1 | 0.5 | 10 |
| BZX55CT9V1 | 9.1 | 0.5 | 10 |
| BZX79C9V1 | 9.1 | 0.5 | 10 |
| 1N4697 | 9.5 | 0.5 | – |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|-----------|--|---|----------------------------|
| 1N5240B | 10 | 0.5 | 17 |
| 1N5240BT | 10 | 0.5 | 17 |
| 1N6000B | 10 | 0.5 | 15 |
| 1N758A | 10 | 0.5 | 17 |
| 1N758AT | 10 | 0.5 | 17 |
| 1N961B | 10 | 0.5 | 8.5 |
| 1N961BT | 10 | 0.5 | 8.5 |
| BZX55C10 | 10 | 0.5 | 15 |
| BZX79C10 | 10 | 0.5 | 15 |
| BZX79CT10 | 10 | 0.5 | 20 |
| BZX55CT10 | 10.05 | 0.5 | 15 |
| 1N4698 | 10.45 | 0.5 | – |
| 1N5241B | 11 | 0.5 | 22 |
| 1N5241BT | 11 | 0.5 | 22 |
| 1N6001B | 11 | 0.5 | 18 |
| 1N962B | 11 | 0.5 | 9.5 |
| 1N962BT | 11 | 0.5 | 9.5 |
| BZX55C11 | 11 | 0.5 | 20 |
| BZX55CT11 | 11 | 0.5 | 20 |
| BZX79C11 | 11 | 0.5 | 20 |
| BZX79CT11 | 11 | 0.5 | 20 |
| 1N4699 | 11.4 | 0.5 | – |
| BZX55CT12 | 11.9 | 0.5 | 20 |
| 1N5242B | 12 | 0.5 | 30 |
| 1N5242BT | 12 | 0.5 | 30 |
| 1N6002B | 12 | 0.5 | 22 |
| 1N759A | 12 | 0.5 | 30 |
| 1N759AT | 12 | 0.5 | 30 |
| 1N963B | 12 | 0.5 | 11.5 |
| 1N963BT | 12 | 0.5 | 11.5 |
| BZX55C12 | 12 | 0.5 | 20 |
| BZX79C12 | 12 | 0.5 | 20 |
| BZX79CT12 | 12.05 | 0.5 | 25 |
| 1N4700 | 12.35 | 0.5 | – |
| 1N5243B | 13 | 0.5 | 13 |
| 1N5243BT | 13 | 0.5 | 13 |
| 1N6003B | 13 | 0.5 | 25 |
| 1N964B | 13 | 0.5 | 13 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|-----------|--|---|----------------------------|
| 1N964BT | 13 | 0.5 | 13 |
| BZX55C13 | 13 | 0.5 | 26 |
| BZX79C13 | 13 | 0.5 | 26 |
| BZX55CT13 | 13.25 | 0.5 | 26 |
| BZX79CT13 | 13.25 | 0.5 | 30 |
| 1N4701 | 13.3 | 0.5 | – |
| 1N5244B | 14 | 0.5 | 15 |
| 1N5244BT | 14 | 0.5 | 15 |
| 1N4702 | 14.25 | 0.5 | – |
| BZX55CT15 | 14.7 | 0.5 | 30 |
| 1N5245B | 15 | 0.5 | 16 |
| 1N5245BT | 15 | 0.5 | 16 |
| 1N6004B | 15 | 0.5 | 32 |
| 1N965B | 15 | 0.5 | 16 |
| 1N965BT | 15 | 0.5 | 16 |
| BZX55C15 | 15 | 0.5 | 30 |
| BZX79C15 | 15 | 0.5 | 30 |
| 1N5246B | 16 | 0.5 | 17 |
| 1N5246BT | 16 | 0.5 | 17 |
| 1N6005B | 16 | 0.5 | 36 |
| 1N966B | 16 | 0.5 | 17 |
| 1N966BT | 16 | 0.5 | 17 |
| BZX55C16 | 16 | 0.5 | 40 |
| BZX79C16 | 16 | 0.5 | 40 |
| BZX55CT16 | 16.2 | 0.5 | 40 |
| BZX79CT16 | 16.2 | 0.5 | 40 |
| 1N5247B | 17 | 0.5 | 19 |
| 1N5247BT | 17 | 0.5 | 19 |
| BZX55CT18 | 17.95 | 0.5 | 50 |
| BZX79CT18 | 17.95 | 0.5 | 45 |
| 1N5248B | 18 | 0.5 | 21 |
| 1N5248BT | 18 | 0.5 | 21 |
| 1N6006B | 18 | 0.5 | 42 |
| 1N967B | 18 | 0.5 | 21 |
| 1N967BT | 18 | 0.5 | 21 |
| BZX55C18 | 18 | 0.5 | 50 |
| BZX79C18 | 18 | 0.5 | 50 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|-----------|--|---|----------------------------|
| 1N5249B | 19 | 0.5 | 23 |
| 1N5249BT | 19 | 0.5 | 23 |
| BZX55CT20 | 19.95 | 0.5 | 55 |
| 1N5250B | 20 | 0.5 | 25 |
| 1N5250BT | 20 | 0.5 | 25 |
| 1N6007B | 20 | 0.5 | 48 |
| 1N968B | 20 | 0.5 | 25 |
| 1N968BT | 20 | 0.5 | 25 |
| BZX55C20 | 20 | 0.5 | 55 |
| BZX79C20 | 20 | 0.5 | 55 |
| BZX79CT20 | 20 | 0.5 | 55 |
| 1N5251B | 22 | 0.5 | 29 |
| 1N6008B | 22 | 0.5 | 55 |
| 1N969B | 22 | 0.5 | 29 |
| BZX55C22 | 22 | 0.5 | 55 |
| BZX55C22 | 22 | 0.5 | 55 |
| BZX79C22 | 22 | 0.5 | 55 |
| BZX79C22 | 22 | 0.5 | 55 |
| 1N5252B | 24 | 0.5 | 33 |
| 1N6009B | 24 | 0.5 | 62 |
| 1N970B | 24 | 0.5 | 33 |
| BZX55C24 | 24 | 0.5 | 80 |
| BZX55C24 | 24 | 0.5 | 80 |
| BZX79C24 | 24 | 0.5 | 80 |
| BZX79C24 | 24 | 0.5 | 80 |
| 1N5253B | 25 | 0.5 | 35 |
| 1N5254B | 27 | 0.5 | 41 |
| 1N6010B | 27 | 0.5 | 70 |
| 1N971B | 27 | 0.5 | 41 |
| BZX55C27 | 27 | 0.5 | 80 |
| BZX55C27 | 27 | 0.5 | 80 |
| BZX79C27 | 27 | 0.5 | 80 |
| BZX79C27 | 27 | 0.5 | 80 |
| 1N5255B | 28 | 0.5 | 44 |
| 1N5256B | 30 | 0.5 | 49 |
| 1N6011B | 30 | 0.5 | 70 |
| 1N972B | 30 | 0.5 | 49 |
| BZX55C30 | 30 | 0.5 | 80 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|----------|--|---|----------------------------|
| BZX55C30 | 30 | 0.5 | 80 |
| BZX79C30 | 30 | 0.5 | 80 |
| BZX79C30 | 30 | 0.5 | 80 |
| 1N5257B | 33 | 0.5 | 58 |
| 1N6012B | 33 | 0.5 | 88 |
| 1N973B | 33 | 0.5 | 58 |
| BZX55C33 | 33 | 0.5 | 80 |
| BZX55C33 | 33 | 0.5 | 80 |
| BZX79C33 | 33 | 0.5 | 80 |
| BZX79C33 | 33 | 0.5 | 80 |
| 1N5258B | 36 | 0.5 | 70 |
| 1N6013B | 36 | 0.5 | 95 |
| 1N974B | 36 | 0.5 | 70 |
| BZX55C36 | 36 | 0.5 | 80 |
| BZX79C36 | 36 | 0.5 | 90 |
| 1N5259B | 39 | 0.5 | 80 |
| 1N6014B | 39 | 0.5 | 130 |
| 1N975B | 39 | 0.5 | 80 |
| BZX55C39 | 39 | 0.5 | 90 |
| BZX79C39 | 39 | 0.5 | 130 |
| 1N5260B | 43 | 0.5 | 93 |
| 1N6015B | 43 | 0.5 | 150 |
| 1N976B | 43 | 0.5 | 93 |
| BZX55C43 | 43 | 0.5 | 90 |
| BZX79C43 | 43 | 0.5 | 150 |
| 1N5261B | 47 | 0.5 | 105 |
| 1N6016B | 47 | 0.5 | 170 |
| 1N977B | 47 | 0.5 | 105 |
| BZX55C47 | 47 | 0.5 | 110 |
| BZX79C47 | 47 | 0.5 | 150 |
| 1N5262B | 51 | 0.5 | 125 |
| 1N6017B | 51 | 0.5 | 180 |
| 1N978B | 51 | 0.5 | 125 |
| BZX55C51 | 51 | 0.5 | 54 |
| BZX79C51 | 51 | 0.5 | 180 |
| 1N5263B | 56 | 0.5 | 150 |
| 1N6018B | 56 | 0.5 | 200 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|-----------|--|---|----------------------------|
| BZX55C56 | 56 | 0.5 | 60 |
| BZX79C56 | 56 | 0.5 | 200 |
| 1N5264B | 60 | 0.5 | 170 |
| 1N5265B | 62 | 0.5 | 230 |
| 1N6019B | 62 | 0.5 | 225 |
| 1N979B | 62 | 0.5 | 185 |
| 1N980B | 62 | 0.5 | 185 |
| BZX55C62 | 62 | 0.5 | 150 |
| BZX79C62 | 62 | 0.5 | 215 |
| 1N5266B | 68 | 0.5 | 230 |
| 1N6020B | 68 | 0.5 | 240 |
| 1N981B | 68 | 0.5 | 230 |
| BZX55C68 | 68 | 0.5 | 160 |
| BZX79C68 | 68 | 0.5 | 240 |
| BZX79C75 | 74.5 | 0.5 | 255 |
| 1N5267B | 75 | 0.5 | 270 |
| 1N6021B | 75 | 0.5 | 265 |
| 1N982B | 75 | 0.5 | 270 |
| BZX55C75 | 75 | 0.5 | 170 |
| BZX79C82 | 79.5 | 0.5 | 280 |
| 1N6022B | 82 | 0.5 | 280 |
| 1N983B | 82 | 0.5 | 330 |
| BZX55C82 | 82 | 0.5 | 200 |
| 1N5268B | 85 | 0.5 | 330 |
| 1N5269B | 87 | 0.5 | 370 |
| BZX55C91 | 90.5 | 0.5 | 250 |
| BZX79C91 | 90.5 | 0.5 | 300 |
| 1N5270B | 91 | 0.5 | 400 |
| 1N6023B | 91 | 0.5 | 300 |
| 1N984B | 91 | 0.5 | 400 |
| 1N5271B | 100 | 0.5 | 500 |
| 1N6024B | 100 | 0.5 | 500 |
| 1N985B | 100 | 0.5 | 500 |
| BZX79C100 | 100 | 0.5 | 500 |
| 1N5272B | 110 | 0.5 | 750 |
| 1N6025B | 110 | 0.5 | 650 |
| 1N986B | 110 | 0.5 | 750 |
| BZX79C110 | 110 | 0.5 | 650 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|--------------|--|---|----------------------------|
| BZX79C180 | 179.5 | 0.5 | 170 |
| 1N5279B | 180 | 0.5 | 2200 |
| 1N991B | 180 | 0.5 | 2200 |
| DO-41 | | | |
| 1N4728A | 3.3 | 1 | 10 |
| BZX85C3V3 | 3.3 | 1.3 | 20 |
| 1N4729A | 3.6 | 1 | 10 |
| BZX85C3V6 | 3.6 | 1.3 | 15 |
| 1N4730A | 3.9 | 1 | 9 |
| BZX85C3V9 | 3.9 | 1.3 | 15 |
| 1N4731A | 4.3 | 1 | 9 |
| BZX85C4V3 | 4.3 | 1.3 | 13 |
| 1N4732A | 4.7 | 1 | 8 |
| BZX85C4V7 | 4.7 | 1.3 | 13 |
| 1N4733A | 5.1 | 1 | 7 |
| BZX85C5V1 | 5.1 | 1.3 | 10 |
| 1N4734A | 5.6 | 1 | 5 |
| BZX85C5V6 | 5.6 | 1.3 | 7 |
| 1N4735A | 6.2 | 1 | 2 |
| BZX85C6V2 | 6.2 | 1.3 | 4 |
| 1N4736A | 6.8 | 1 | 3.5 |
| BZX85C6V8 | 6.8 | 1.3 | 3 |
| 1N4737A | 7.5 | 1 | 4 |
| BZX85C7V5 | 7.5 | 1.3 | 3 |
| 1N4738A | 8.2 | 1 | 4.5 |
| BZX85C8V2 | 8.2 | 1.3 | 5 |
| 1N4739A | 9.1 | 1 | 5 |
| BZX85C9V1 | 9.1 | 1.3 | 5 |
| 1N4740A | 10 | 1 | 7 |
| BZX85C10 | 10 | 1.3 | 7 |
| 1N4741A | 11 | 1 | 8 |
| BZX85C11 | 11 | 1.3 | 8 |
| 1N4742A | 12 | 1 | 9 |
| BZX85C12 | 12 | 1.3 | 9 |
| 1N4743A | 13 | 1 | 10 |
| BZX85C13 | 13 | 1.3 | 10 |
| 1N4744A | 15 | 1 | 14 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|----------------|--|---|----------------------------|
| BZX85C15 | 15 | 1.3 | 15 |
| 1N4745A | 16 | 1 | 16 |
| BZX85C16 | 16 | 1.3 | 15 |
| 1N4746A | 18 | 1 | 20 |
| BZX85C18 | 18 | 1.3 | 20 |
| 1N4747A | 20 | 1 | 22 |
| BZX85C20 | 20 | 1.3 | 24 |
| 1N4748A | 22 | 1 | 23 |
| BZX85C22 | 22 | 1.3 | 25 |
| 1N4749A | 24 | 1 | 25 |
| BZX85C24 | 24 | 1.3 | 25 |
| 1N4750A | 27 | 1 | 35 |
| BZX85C27 | 27 | 1.3 | 30 |
| 1N4751A | 30 | 1 | 40 |
| BZX85C30 | 30 | 1.3 | 30 |
| 1N4752A | 33 | 1 | 45 |
| BZX85C33 | 33 | 1.3 | 35 |
| SOD-123 | | | |
| MMSZ4684 | 3.3 | 0.5 | – |
| MMSZ5226B | 3.3 | 0.5 | 28 |
| MMSZ5227B | 3.6 | 0.5 | 24 |
| MMSZ4686 | 3.9 | 0.5 | – |
| MMSZ5228B | 3.9 | 0.5 | 23 |
| MMSZ5229B | 4.3 | 0.5 | 22 |
| MMSZ4688 | 4.7 | 0.5 | – |
| MMSZ5230B | 4.7 | 0.5 | 19 |
| MMSZ4689 | 5.1 | 0.5 | – |
| MMSZ5231B | 5.1 | 0.5 | 17 |
| MMSZ5232B | 5.6 | 0.5 | 11 |
| MMSZ5233B | 6 | 0.5 | 7 |
| MMSZ5234B | 6.2 | 0.5 | 7 |
| MMSZ4692 | 6.8 | 0.5 | – |
| MMSZ5235B | 6.8 | 0.5 | 5 |
| MMSZ5236B | 7.5 | 0.5 | 6 |
| MMSZ5237B | 8.2 | 0.5 | 8 |
| MMSZ5238B | 8.7 | 0.5 | 8 |
| MMSZ5239B | 9.1 | 0.5 | 10 |
| MMSZ4697 | 10 | 0.5 | – |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|---------------|--|---|----------------------------|
| MMSZ5240B | 10 | 0.5 | 17 |
| MMSZ5241B | 11 | 0.5 | 22 |
| MMSZ5242B | 12 | 0.5 | 30 |
| MMSZ5243B | 13 | 0.5 | 13 |
| MMSZ5244B | 14 | 0.5 | 15 |
| MMSZ4702 | 15 | 0.5 | – |
| MMSZ5245B | 15 | 0.5 | 16 |
| MMSZ4703 | 16 | 0.5 | – |
| MMSZ5246B | 16 | 0.5 | 17 |
| MMSZ5247B | 17 | 0.5 | 19 |
| MMSZ5248B | 18 | 0.5 | 21 |
| MMSZ4706 | 19 | 0.5 | – |
| MMSZ5249B | 19 | 0.5 | 23 |
| MMSZ5250B | 20 | 0.5 | 25 |
| MMSZ5251B | 22 | 0.5 | 29 |
| MMSZ5252B | 24 | 0.5 | 33 |
| MMSZ5253B | 25 | 0.5 | 35 |
| MMSZ5254B | 27 | 0.5 | 41 |
| MMSZ5255B | 28 | 0.5 | 44 |
| MMSZ5256B | 30 | 0.5 | 49 |
| MMSZ5257B | 33 | 0.5 | 58 |
| SOT-23 | | | |
| MMBZ5221B | 2.4 | 0.35 | – |
| MMBZ5223B | 2.7 | 0.35 | – |
| BZX84C3V3 | 3.3 | 0.35 | 85 |
| MMBZ5226B | 3.3 | 0.35 | 28 |
| BZX84C3V6 | 3.6 | 0.35 | 85 |
| MMBZ5227B | 3.6 | 0.35 | 24 |
| BZX84C3V9 | 3.9 | 0.35 | 85 |
| MMBZ5228B | 3.9 | 0.35 | 23 |
| BZX84C4V3 | 4.3 | 0.35 | 75 |
| MMBZ5229B | 4.3 | 0.35 | 22 |
| BZX84C4V7 | 4.7 | 0.35 | 60 |
| MMBZ5230B | 4.7 | 0.35 | 19 |
| BZX84C5V1 | 5.1 | 0.35 | 35 |
| MMBZ5231B | 5.1 | 0.35 | 17 |
| BZX84C5V6 | 5.6 | 0.35 | 25 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|-----------|--|---|----------------------------|
| MMBZ5232B | 5.6 | 0.35 | 11 |
| MMBZ5233B | 6 | 0.35 | 7 |
| BZX84C6V2 | 6.2 | 0.35 | 10 |
| MMBZ5234B | 6.2 | 0.35 | 7 |
| BZX84C6V8 | 6.8 | 0.35 | 8 |
| MMBZ5235B | 6.8 | 0.35 | 5 |
| BZX84C7V5 | 7.5 | 0.35 | 7 |
| MMBZ5236B | 7.5 | 0.35 | 6 |
| BZX84C8V2 | 8.2 | 0.35 | 7 |
| MMBZ5237B | 8.2 | 0.35 | 8 |
| MMBZ5238B | 8.7 | 0.35 | 8 |
| BZX84C9V1 | 9.1 | 0.35 | 10 |
| MMBZ5239B | 9.1 | 0.35 | 10 |
| BZX84C10 | 10 | 0.35 | 15 |
| MMBZ5240B | 10 | 0.35 | 17 |
| BZX84C11 | 11 | 0.35 | 20 |
| MMBZ5241B | 11 | 0.35 | 22 |
| BZX84C12 | 12 | 0.35 | 20 |
| MMBZ5242B | 12 | 0.35 | 30 |
| BZX84C13 | 13 | 0.35 | 26 |
| MMBZ5243B | 13 | 0.35 | 13 |
| MMBZ5244B | 14 | 0.35 | 15 |
| BZX84C15 | 15 | 0.35 | 30 |
| MMBZ5245B | 15 | 0.35 | 16 |
| BZX84C16 | 16 | 0.35 | 40 |
| MMBZ5246B | 16 | 0.35 | 17 |
| MMBZ5247B | 17 | 0.35 | 19 |
| BZX84C18 | 18 | 0.35 | 50 |
| MMBZ5248B | 18 | 0.35 | 21 |
| MMBZ5249B | 19 | 0.35 | 23 |
| BZX84C20 | 20 | 0.35 | 55 |
| MMBZ5250B | 20 | 0.35 | 25 |
| BZX84C22 | 22 | 0.35 | 55 |
| MMBZ5251B | 22 | 0.35 | 29 |
| BZX84C24 | 24 | 0.35 | 80 |
| MMBZ5252B | 24 | 0.35 | 33 |
| MMBZ5253B | 25 | 0.35 | 35 |
| BZX84C27 | 27 | 0.35 | 80 |

Zener Diodes (Continued)

| Products | V _Z Nominal Zener Voltage (V) | P _D Total Device Dissipation (W) | Maximum Z _Z (Ω) |
|-----------|--|---|----------------------------|
| MMBZ5254B | 27 | 0.35 | 41 |
| MMBZ5255B | 28 | 0.35 | 44 |
| BZX84C30 | 30 | 0.35 | 80 |
| MMBZ5256B | 30 | 0.35 | 49 |
| BZX84C33 | 33 | 0.35 | 80 |
| MMBZ5257B | 33 | 0.35 | 58 |

Small Signal Diodes

| Part Number | Configuration | I_{FSM} (A) | Thermal Resistance $R_{\theta JA}$ (Cel/W) | V_{RRM} Maximum Repetitive Reverse Voltage (V) | I_F (av) Average Rectified Forward Current (A) | V_{FM} Maximum Instantaneous Forward Voltage (V) | I_{RM} Maximum Instantaneous Reverse Current (μ A) | t_{rr} Reverse Recovery Time (ns) |
|--------------|---------------|---------------|--|--|--|--|---|-------------------------------------|
| DO-35 | | | | | | | | |
| 1N4148 | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| 1N4149 | Single | 1 | 300 | 100 | 0.3 | 1 | 0.025 | 4 |
| 1N4150 | Single | 1 | 300 | 75 | 0.4 | 1 | 0.1 | 4 |
| 1N4154 | Single | 1 | 300 | 35 | 0.3 | 1 | 0.1 | 2 |
| 1N4448 | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| 1N4454 | Single | 1 | 300 | 75 | 0.4 | 1 | 0.1 | 4 |
| 1N456A | Single | 1 | 300 | 30 | 0.5 | 1 | 0.025 | – |
| 1N457 | Single | 1 | 300 | 70 | 0.5 | 1 | 0.025 | – |
| 1N457A | Single | 1 | 300 | 70 | 0.5 | 1 | 0.025 | – |
| 1N458A | Single | 1 | 300 | 150 | 0.5 | 1 | 0.025 | – |
| 1N459 | Single | 1 | 300 | 200 | 0.5 | 1 | 0.025 | – |
| 1N459A | Single | 1 | 300 | 200 | 0.5 | 1 | 0.025 | – |
| 1N5282 | Single | 1 | 300 | 80 | 0.2 | – | – | 4 |
| 1N914 | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| 1N914A | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| 1N914B | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| 1N916 | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| 1N916A | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| 1N916B | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| BAV19 | Single | 1 | 300 | 120 | 0.5 | 1 | 0.1 | 50 |
| BAV20 | Single | 1 | 300 | 200 | 0.5 | 1 | 0.1 | 50 |
| BAV21 | Single | 1 | 300 | 250 | 0.5 | 1 | 0.1 | 50 |
| BAY73 | Single | 1 | 300 | 125 | 0.5 | 1 | 0.005 | 1000 |
| FDH300 | Single | 1 | 300 | 150 | 0.5 | 1 | 0.001 | – |
| FDH300A | Single | 1 | 300 | 150 | 0.5 | 1 | 0.001 | – |
| FDH333 | Single | 1 | 300 | 150 | 0.5 | 1.05 | 0.003 | – |
| FDH3595 | Single | 1 | 300 | 150 | 0.5 | 1 | 0.001 | 3000 |
| FDH400 | Single | 1 | 300 | 200 | 0.5 | 1 | 0.1 | 50 |
| FDH600 | Single | 1 | 300 | 75 | 0.2 | 1 | 0.1 | 4 |
| FDH700 | Single | 1 | 300 | 30 | 0.15 | 1.25 | 0.05 | 9 |
| FJH1100 | Single | 1 | 300 | 30 | 0.15 | 1.05 | 0 | – |
| FJH1101 | Single | 1 | 300 | 20 | 0.15 | 1.1 | 0 | – |
| FJH1102 | Single | 1 | 300 | 30 | 0.15 | 1.1 | 0 | – |

Small Signal Diodes (Continued)

| Part Number | Configuration | I _{FSM} (A) | Thermal Resistance R _{OJA} (Cel/W) | V _{RRM} Maximum Repetitive Reverse Voltage (V) | I _{F(av)} Average Rectified Forward Current (A) | V _{FM} Maximum Instantaneous Forward Voltage (V) | I _{RM} Maximum Instantaneous Reverse Current (μA) | t _{rr} Reverse Recovery Time (ns) |
|--------------|---------------|----------------------|---|---|--|---|--|--|
| 1N3595 | Single | 2 | 300 | 150 | 0.2 | 1 | 0.1 | 3000 |
| 1N3064 | Single | 4 | 300 | 75 | 0.3 | 1 | 0.1 | 4 |
| 1N3070 | Single | 4 | 300 | 200 | 0.5 | 1 | 0.1 | 50 |
| 1N4151 | Single | 4 | 300 | 75 | 0.3 | 1 | 0.05 | 2 |
| 1N4152 | Single | 4 | 300 | 40 | 0.2 | 1 | 0.05 | 4 |
| 1N4153 | Single | 4 | 300 | 75 | 0.2 | – | 0.05 | – |
| 1N4305 | Single | 4 | 300 | 75 | 0.3 | 0.85 | 0.1 | 2 |
| 1N485B | Single | 4 | 300 | 200 | 0.5 | 1 | 0.025 | – |
| 1N486B | Single | 4 | 300 | 250 | 0.5 | 1 | 0.05 | – |
| 1N4938 | Single | 4 | 300 | 200 | 0.5 | 1 | 0.1 | 50 |
| 1S922 | Single | 4 | 300 | 150 | 0.2 | 1.2 | 0.1 | – |
| 1S923 | Single | 4 | 300 | 200 | 0.2 | 1.2 | 0.1 | – |
| BAW62 | Single | 4 | 300 | 75 | 0.3 | 1 | 0.025 | 40 |
| BAW76 | Single | 4 | 300 | 85 | 0.3 | 1 | 0.1 | 2 |
| BAY71 | Single | 4 | 300 | 50 | 0.3 | 1 | 0.1 | 2 |
| BAY72 | Single | 4 | 350 | 125 | 0.5 | 1 | 0.1 | 50 |
| LL-34 | | | | | | | | |
| FDLL300 | Single | 1 | 300 | 150 | 0.5 | 1 | 0.001 | – |
| FDLL300A | Single | 1 | 300 | 150 | 0.5 | 1 | 0.001 | – |
| FDLL333 | Single | 1 | 300 | 150 | 0.5 | 1.05 | 0.003 | – |
| FDLL400 | Single | 1 | 300 | 200 | 0.5 | 1 | 0.1 | 50 |
| FDLL4148 | Single | 1 | 300 | 100 | 0.3 | 1 | 0.025 | 4 |
| FDLL4150 | Single | 1 | 300 | 75 | 0.4 | 1 | 0.1 | 4 |
| FDLL4448 | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| FDLL457A | Single | 1 | – | 70 | 0.2 | – | – | – |
| FDLL485B | Single | 1 | 300 | 200 | 0.5 | 1 | 0.025 | – |
| FDLL914 | Single | 1 | 300 | 100 | 0.3 | 1 | 0.025 | 4 |
| FDLL914A | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| FDLL914B | Single | 1 | 300 | 100 | 0.2 | 1 | 0.025 | 4 |
| BAV102 | Single | 4 | 350 | 200 | 0.6 | 1 | 0.1 | 50 |
| BAV103 | Single | 4 | 350 | 250 | 0.6 | 1 | 0.1 | 50 |
| FDLL3595 | Single | 4 | 350 | 150 | 0.5 | 1 | 0.001 | 3000 |

Small Signal Diodes (Continued)

| Part Number | Configuration | I _{FSM} (A) | Thermal Resistance R _{OJA} (Cel/W) | V _{RRM} Maximum Repetitive Reverse Voltage (V) | I _{F(av)} Average Rectified Forward Current (A) | V _{FM} Maximum Instantaneous Forward Voltage (V) | I _{RM} Maximum Instantaneous Reverse Current (μA) | t _{rr} Reverse Recovery Time (ns) |
|----------------|-----------------------|----------------------|---|---|--|---|--|--|
| SOD-123 | | | | | | | | |
| MMSD3070 | Single | 2 | 312 | 200 | 0.2 | 1 | 0.1 | 50 |
| MMSD4148 | Single | 2 | 312 | 100 | 0.6 | 1 | 0.025 | 4 |
| MMSD914 | Single | 2 | 312 | 100 | 0.6 | 1 | 0.025 | 4 |
| SOT-23 | | | | | | | | |
| MMBD1705 | Dual & Common Anode | 0 | 357 | 30 | 0.15 | 1.1 | 0.05 | 0 |
| MMBD1705A | Dual & Common Anode | 0 | 357 | 30 | 0.15 | 1.1 | 0.05 | 1 |
| BAS35 | Dual & Common Anode | 1 | 357 | 125 | 0.6 | 1 | 0.1 | 50 |
| BAW56 | Dual & Common Anode | 1 | 357 | 85 | 0.6 | 1 | 2.5 | 6 |
| BAW74 | Dual & Common Anode | 1 | 357 | 50 | 0.6 | 1 | 0.1 | 4 |
| MMBD1205 | Dual & Common Anode | 1 | 357 | 100 | 0.6 | 1 | 0.05 | 4 |
| MMBD1405 | Dual & Common Anode | 1 | 357 | 200 | 0.6 | 1 | 0.1 | 50 |
| MMBD1405A | Dual & Common Anode | 1 | 357 | 250 | 0.6 | 1 | 0.1 | 50 |
| MMBD1505A | Dual & Common Anode | 1 | 357 | 200 | 0.6 | 1.1 | 0.001 | — |
| MMBD4148CA | Dual & Common Anode | 1 | 357 | 100 | 0.6 | 1 | 0.025 | 4 |
| MMBD1704A | Dual & Common Cathode | 0 | 357 | 30 | 0.15 | 1.1 | 0.05 | 1 |
| BAV70 | Dual & Common Cathode | 1 | 357 | 70 | 0.6 | 1 | 5 | 6 |
| BAV74 | Dual & Common Cathode | 1 | 357 | 50 | 0.6 | 1 | 0.1 | 4 |
| MMBD1204 | Dual & Common Cathode | 1 | 357 | 100 | 0.6 | 1 | 0.05 | 4 |
| MMBD1404 | Dual & Common Cathode | 1 | 357 | 200 | 0.6 | 1 | 0.1 | 50 |
| MMBD1404A | Dual & Common Cathode | 1 | 357 | 250 | 0.6 | 1 | 0.1 | 50 |
| MMBD1504A | Dual & Common Cathode | 1 | 357 | 200 | 0.6 | 1.1 | 0.001 | — |
| MMBD2838 | Dual & Common Cathode | 1 | 357 | 75 | 0.6 | 1.2 | 0.1 | 4 |
| MMBD4148CC | Dual & Common Cathode | 1 | 357 | 100 | 0.6 | 1 | 0.025 | 4 |
| MMBD1703 | Dual Series | 0 | 357 | 30 | 0.15 | 1.1 | 0.05 | 0 |
| MMBD1703A | Dual Series | 0 | 357 | 30 | 0.15 | 1.1 | 0.05 | 1 |
| BAS31 | Dual Series | 1 | 357 | 125 | 0.6 | 1 | 0.1 | 50 |
| BAV99 | Dual Series | 1 | 357 | 70 | 0.6 | 1 | 2.5 | 6 |
| MMBD1203 | Dual Series | 1 | 357 | 100 | 0.6 | 1 | 0.05 | 4 |
| MMBD1403 | Dual Series | 1 | 357 | 200 | 0.6 | 1 | 0.1 | 50 |
| MMBD1403A | Dual Series | 1 | 357 | 250 | 0.6 | 1 | 0.1 | 50 |
| MMBD1503A | Dual Series | 1 | 357 | 200 | 0.6 | 1.1 | 0.001 | — |
| MMBD4148SE | Dual Series | 1 | 357 | 100 | 0.6 | 1 | 0.025 | 4 |
| MMBD7000 | Dual Series | 1 | 357 | 100 | 0.6 | 1.1 | 0.3 | 4 |

Small Signal Diodes (Continued)

| Part Number | Configuration | I_{FSM} (A) | Thermal Resistance $R_{\theta JA}$ (Cel/W) | V_{RRM} Maximum Repetitive Reverse Voltage (V) | $I_{F(av)}$ Average Rectified Forward Current (A) | V_{FM} Maximum Instantaneous Forward Voltage (V) | I_{RM} Maximum Instantaneous Reverse Current (μ A) | t_{rr} Reverse Recovery Time (ns) |
|-------------|---------------|---------------|--|--|---|--|---|-------------------------------------|
| FLLD261 | Dual Series | 3 | 357 | 200 | 0.6 | 1.4 | 0.005 | 400 |
| BAV23S | Dual Series | 9 | 357 | 250 | 0.4 | 1 | 0.1 | 50 |
| MMBD1701 | Single | 0 | 357 | 30 | 0.15 | 1.1 | 0.05 | 0 |
| MMBD1701A | Single | 0 | 357 | 30 | 0.15 | 1.1 | 0.05 | 1 |
| BAS16 | Single | 1 | 357 | 85 | 0.6 | 1 | 1 | 6 |
| BAS21 | Single | 1 | 357 | 250 | 0.6 | 1 | 0.1 | 50 |
| MMBD1201 | Single | 1 | 357 | 100 | 0.6 | 1 | 0.05 | 4 |
| MMBD1401 | Single | 1 | 357 | 200 | 0.6 | 1 | 0.1 | 50 |
| MMBD1401A | Single | 1 | 357 | 250 | 0.6 | 1 | 0.1 | 50 |
| MMBD1501A | Single | 1 | 357 | 200 | 0.6 | 1.1 | 0.001 | – |
| MMBD4148 | Single | 1 | 357 | 100 | 0.6 | 1 | 0.025 | 4 |
| MMBD4448 | Single | 1 | 357 | 100 | 0.6 | 1 | 0.025 | 4 |
| MMBD914 | Single | 1 | 357 | 100 | 0.6 | 1 | 0.025 | 4 |
| BAS19 | Single | 2 | 357 | 120 | 0.6 | 1 | 0.1 | 50 |
| BAS20 | Single | 2 | 357 | 200 | 0.6 | 1 | 0.1 | 50 |
| BAS29 | Single | 2 | 357 | 120 | 0.6 | 1 | 0.1 | 50 |

Triacs

| Part Number | V _{DRM} (V) | I _{T(RMS)} (A) | I _{TSM} (A) | di/dt (A/μs) | V _{TM} @ I _{TM} | | V _{GT} (V) | dv/dt (V/μs) | (dv/dt) _c (V) | I _{GT} (mA) | Package |
|-----------------------|-------------------------|----------------------------|-------------------------|-----------------|-----------------------------------|---------------------|------------------------|-----------------|-----------------------------|-------------------------|---------|
| | | | | | V _{TM} (V) | I _{TM} (A) | | | | | |
| Standard Triac | | | | | | | | | | | |
| FKPF10N80 | 800 | 10 | 110 | 50 | 1.5 | 15 | 1.5 | 300 | 10 | 30 | TO-220F |
| FKPF12N80 | 800 | 12 | 120 | 50 | 1.5 | 17 | 1.5 | 300 | 10 | 30 | TO-220F |
| FKPF2N80 | 800 | 2 | 10 | 50 | 1.6 | 3 | 1.5 | 500 | 5 | 10 | TO-220F |
| FKPF8N80 | 800 | 8 | 80 | 50 | 1.5 | 12 | 1.5 | 300 | 10 | 30 | TO-220F |
| Logic Triac | | | | | | | | | | | |
| FKN2L80 | 800 | 1.5 | 10 | 50 | 1.6 | 3 | 1.5 | 500 | 5 | 5 | TO-92 |

Discrete IGBTs

| Part Number | BV_{CES} Min (V) | $I_C@100^\circ\text{C}$ | $V_{CE(sat)}$ Typ (V) | t_f Typ (ns) | Short Circuit Rated | Built in Diode | Primary Applications |
|--------------------|--------------------|-------------------------|-----------------------|----------------|---------------------|----------------|--|
| SO-8 | | | | | | | |
| FGS15N40L | 400 | 130 | 4.5 | 1500 | – | – | Camera Strobe |
| SOT-227B | | | | | | | |
| HGT1N30N60A4D | 600 | 60 | 1.8 | 70 | – | Yes | Power Conversion |
| HGT1N40N60A4D | 600 | 63 | 1.7 | 35 | – | Yes | Power Conversion |
| Stretch-247 | | | | | | | |
| FGK60N6S2D | 600 | 75 | 1.9 | 90 | – | Yes | Motor, Power Conversion |
| TO-220 | | | | | | | |
| HGTP3N60C3D | 600 | 3 | 1.65 | 275 | Yes | Yes | Motor |
| SGP6N60UF | 600 | 3 | 2.1 | 70 | – | – | Motor, Power Conversion |
| SGP6N60UFD | 600 | 3 | 2.1 | 70 | – | Yes | Motor, Power Conversion |
| SGP5N60RUF | 600 | 5 | 2.2 | 136 | Yes | – | Motor, Power Conversion |
| SGP5N60RUFDF | 600 | 5 | 2.2 | 136 | Yes | Yes | Motor, Power Conversion |
| SGP13N60UF | 600 | 6 | 2.1 | 97 | – | – | Motor, Power Conversion |
| SGP13N60UFD | 600 | 6 | 2.1 | 97 | – | Yes | Motor, Power Conversion |
| HGTP7N60C3D | 600 | 7 | 1.6 | 275 | Yes | Yes | Motor |
| HGTP3N60A4 | 600 | 8 | 2 | 47 | – | – | Power Conversion |
| HGTP3N60A4D | 600 | 8 | 2 | 47 | – | Yes | Power Conversion |
| SGP10N60RUF | 600 | 10 | 2.2 | 158 | Yes | – | Motor, Power Conversion |
| SGP10N60RUFDF | 600 | 10 | 2.2 | 158 | Yes | Yes | Motor, Power Conversion |
| HGTP12N60B3 | 600 | 12 | 1.6 | 62 | Yes | – | Motor, Power Conversion |
| HGTP12N60C3 | 600 | 12 | 1.65 | 275 | Yes | – | Motor |
| HGTP12N60C3D | 600 | 12 | 1.65 | 275 | Yes | Yes | Motor |
| SGP23N60UF | 600 | 12 | 2.1 | 70 | – | – | Motor, Power Conversion |
| SGP23N60UFD | 600 | 12 | 2.1 | 70 | – | Yes | Motor, Power Conversion |
| FGP20N6S2 | 600 | 13 | 2.2 | 50 | – | – | Power Conversion |
| FGP20N6S2D | 600 | 13 | 2.2 | 50 | – | Yes | Power Conversion |
| HGTP7N60A4 | 600 | 14 | 1.9 | 45 | – | – | Power Conversion |
| HGTP7N60A4D | 600 | 14 | 1.9 | 45 | – | Yes | Power Conversion |
| SGP15N60RUF | 600 | 15 | 2.2 | 118 | Yes | – | Motor, Power Conversion |
| FGP30N6S2 | 600 | 20 | 2 | 90 | – | – | Motor, Power Conversion |
| FGP30N6S2D | 600 | 20 | 2 | 90 | – | Yes | Motor, Power Conversion |
| SGP40N60UF | 600 | 20 | 2.1 | 50 | – | – | Induction Heating, Motor, Power Conversion |
| SGP20N60RUF | 600 | 20 | 2.2 | 152 | Yes | – | Motor, Power Conversion |
| HGTP12N60A4 | 600 | 23 | 2 | 95 | – | – | Power Conversion |
| HGTP12N60A4D | 600 | 23 | 2 | 18 | – | Yes | Power Conversion |
| FGP40N6S2 | 600 | 35 | 1.9 | 85 | – | – | Motor, Power Conversion |

Discrete IGBTs (Continued)

| Part Number | $V_{CE(sat)}$ Min (V) | $I_C@100^\circ\text{C}$ | $V_{CE(sat)}$ Typ (V) | t_f Typ (ns) | Short Circuit Rated | Built in Diode | Primary Applications |
|----------------|-----------------------|-------------------------|-----------------------|----------------|---------------------|----------------|--|
| HGTP20N60A4 | 600 | 40 | 1.8 | 73 | – | – | Power Conversion |
| HGTP2N120CN | 1200 | 7 | 2.05 | 420 | Yes | – | Motor |
| HGTP5N120BND | 1200 | 10 | 2.45 | 160 | Yes | Yes | Motor, Power Conversion |
| HGTP10N120BN | 1200 | 17 | 2.45 | 200 | Yes | – | Motor, Power Conversion |
| TO-220F | | | | | | | |
| SGS6N60UF | 600 | 3 | 2.1 | 70 | – | – | Induction Heating, Motor, Power Conversion |
| SGS6N60UFD | 600 | 3 | 2.1 | 70 | – | Yes | Induction Heating, Motor, Power Conversion |
| SGS5N60RUF | 600 | 5 | 2.2 | 136 | Yes | – | Motor, Power Conversion |
| SGS5N60RUFDF | 600 | 5 | 2.2 | 136 | Yes | Yes | Motor, Power Conversion |
| SGS13N60UF | 600 | 6 | 2.1 | 97 | – | – | Induction Heating, Motor, Power Conversion |
| SGS13N60UFD | 600 | 6 | 2.1 | 97 | – | Yes | Induction Heating, Motor, Power Conversion |
| SGS10N60RUF | 600 | 10 | 2.2 | 158 | Yes | – | Motor |
| SGS10N60RUFDF | 600 | 10 | 2.2 | 158 | Yes | Yes | Motor, Power Conversion |
| SGS23N60UF | 600 | 12 | 2.1 | 70 | – | – | Induction Heating, Motor, Power Conversion |
| SGS23N60UFD | 600 | 12 | 2.1 | 70 | – | Yes | Induction Heating, Motor, Power Conversion |
| SGS5N150UF | 1500 | 5 | 4.7 | 70 | – | – | High Power SMPS |
| TO-247 | | | | | | | |
| HGTG12N60B3 | 600 | 12 | 1.6 | 62 | Yes | – | Motor, Power Conversion |
| HGTG12N60C3D | 600 | 12 | 1.65 | 275 | Yes | Yes | Motor |
| FGH20N6S2 | 600 | 13 | 2.2 | 50 | – | – | Power Conversion |
| FGH20N6S2D | 600 | 13 | 2.2 | 50 | – | Yes | Power Conversion |
| HGTG7N60A4 | 600 | 14 | 1.9 | 45 | – | – | Power Conversion |
| HGTG7N60A4D | 600 | 14 | 1.9 | 45 | – | Yes | Power Conversion |
| HGTG20N60C3D | 600 | 20 | 1.4 | 98 | Yes | Yes | Motor |
| HGTG20N60B3 | 600 | 20 | 1.8 | 70 | Yes | – | Motor, Power Conversion |
| HGTG20N60B3D | 600 | 20 | 1.8 | 70 | Yes | – | Motor, Power Conversion |
| FGH30N6S2 | 600 | 20 | 2 | 90 | – | – | Motor, Power Conversion |
| FGH30N6S2D | 600 | 20 | 2 | 90 | – | Yes | Motor, Power Conversion |
| HGTG12N60A4 | 600 | 23 | 2 | 95 | – | – | Power Conversion |
| HGTG12N60A4D | 600 | 23 | 2 | 18 | – | Yes | Power Conversion |
| HGTG30N60B3 | 600 | 30 | 1.45 | 25 | Yes | – | Motor, Power Conversion |
| HGTG30N60B3D | 600 | 30 | 1.45 | 58 | Yes | Yes | Motor, Power Conversion |
| HGTG30N60C3D | 600 | 30 | 1.5 | 275 | Yes | Yes | Motor |

Discrete IGBTs (Continued)

| Part Number | BV_{CES} Min (V) | $I_C@100^\circ C$ | $V_{CE(sat)}$ Typ (V) | t_f Typ (ns) | Short Circuit Rated | Built in Diode | Primary Applications |
|----------------------|--------------------|-------------------|-----------------------|----------------|---------------------|----------------|-------------------------|
| FGH40N6S2 | 600 | 35 | 1.9 | 85 | – | – | Motor, Power Conversion |
| FGH40N6S2D | 600 | 35 | 1.9 | 85 | – | Yes | Motor, Power Conversion |
| HGTG40N60C3 | 600 | 40 | 1.3 | 60 | Yes | – | Motor |
| HGTG40N60B3 | 600 | 40 | 1.65 | 50 | Yes | – | Motor, Power Conversion |
| HGTG20N60A4 | 600 | 40 | 1.8 | 73 | – | – | Power Conversion |
| HGTG20N60A4D | 600 | 40 | 1.8 | 73 | – | Yes | Power Conversion |
| HGTG30N60A4 | 600 | 60 | 1.8 | 38 | – | – | Power Conversion |
| HGTG30N60A4D | 600 | 60 | 1.8 | 70 | – | Yes | Power Conversion |
| FGH50N6S2 | 600 | 60 | 1.9 | 90 | – | – | Motor, Power Conversion |
| FGH50N6S2D | 600 | 60 | 1.9 | 90 | – | Yes | Motor, Power Conversion |
| HGTG40N60A4 | 600 | 63 | 1.7 | 35 | – | – | Power Conversion |
| FGH60N6S2 | 600 | 75 | 1.9 | 90 | – | – | Motor, Power Conversion |
| HGTG5N120BND | 1200 | 10 | 2.45 | 160 | Yes | Yes | Motor, Power Conversion |
| HGTG10N120BND | 1200 | 17 | 2.45 | 140 | Yes | Yes | Motor, Power Conversion |
| HGTG11N120CN | 1200 | 22 | 2.1 | 400 | Yes | – | Motor |
| HGTG11N120CND | 1200 | 22 | 2.1 | 400 | Yes | Yes | Motor |
| HGTG18N120BN | 1200 | 26 | 2.45 | 140 | Yes | – | Motor, Power Conversion |
| HGTG18N120BND | 1200 | 26 | 2.45 | 140 | Yes | Yes | Motor, Power Conversion |
| HGTG27N120BN | 1200 | 34 | 2.45 | 120 | Yes | – | Motor, Power Conversion |
| TO-251 (IPAK) | | | | | | | |
| SGU15N40L | 400 | 130 | 4.5 | 1100 | – | – | Camera Strobe |
| SGU20N40L | 400 | 150 | 4.5 | 1500 | – | – | Camera Strobe |
| SGU2N60UF | 600 | 1 | 2.1 | 95 | – | – | Power Conversion |
| SGU2N60UFD | 600 | 1 | 2.1 | 95 | – | Yes | Power Conversion |
| SGU6N60UF | 600 | 3 | 2.1 | 70 | – | – | Motor, Power Conversion |
| TO-252 (DPAK) | | | | | | | |
| SGR15N40L | 400 | 130 | 4.5 | 1100 | – | – | Camera Strobe |
| SGR20N40L | 400 | 150 | 4.5 | 1500 | – | – | Camera Strobe |
| SGR2N60UF | 600 | 1 | 2.1 | 95 | – | – | Power Conversion |
| SGR2N60UFD | 600 | 1 | 2.1 | 95 | – | Yes | Power Conversion |
| HGTD3N60C3S | 600 | 3 | 1.65 | 275 | Yes | – | Motor |
| SGR6N60UF | 600 | 3 | 2.1 | 70 | – | – | Motor, Power Conversion |
| SGR5N60RUF | 600 | 5 | 2.2 | 136 | Yes | – | Motor, Power Conversion |
| HGTD7N60C3S | 600 | 7 | 1.6 | 275 | Yes | – | Motor |
| HGTD3N60A4S | 600 | 8 | 2 | 47 | – | – | Power Conversion |
| HGTD1N120BNS | 1200 | 2 | 2.5 | 370 | Yes | – | Motor, Power Conversion |

Discrete IGBTs (Continued)

| Part Number | $V_{CE(s)} \text{ Min (V)}$ | $I_C @ 100^\circ\text{C}$ | $V_{CE(sat)} \text{ Typ (V)}$ | $t_f \text{ Typ (ns)}$ | Short Circuit Rated | Built in Diode | Primary Applications |
|---------------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|---------------------|----------------|-------------------------|
| TO-262(I²PAK) | | | | | | | |
| HGT1S2N120CN | 1200 | 7 | 2.05 | 420 | Yes | Yes | Motor |
| TO-263(D²PAK) | | | | | | | |
| SGW6N60UF | 600 | 3 | 2.1 | 70 | – | – | Motor, Power Conversion |
| SGW6N60UFD | 600 | 3 | 2.1 | 70 | – | Yes | Motor, Power Conversion |
| SGW5N60RUF | 600 | 5 | 2.2 | 136 | Yes | – | Motor, Power Conversion |
| SGW5N60RUFD | 600 | 5 | 2.2 | 136 | Yes | Yes | Motor, Power Conversion |
| SGW13N60UF | 600 | 6 | 2.1 | 97 | – | – | Motor, Power Conversion |
| SGW13N60UFD | 600 | 6 | 2.1 | 97 | – | Yes | Motor, Power Conversion |
| HGT1S7N60C3DS | 600 | 7 | 1.6 | 275 | Yes | Yes | Motor |
| HGT1S7N60B3DS | 600 | 7 | 1.8 | 60 | Yes | Yes | Motor, Power Conversion |
| SGW10N60RUF | 600 | 10 | 2.2 | 158 | Yes | – | Motor, Power Conversion |
| SGW10N60RUFD | 600 | 10 | 2.2 | 158 | Yes | Yes | Motor, Power Conversion |
| SGW23N60UF | 600 | 12 | 2.1 | 70 | – | – | Motor, Power Conversion |
| SGW23N60UFD | 600 | 12 | 2.1 | 70 | – | Yes | Motor, Power Conversion |
| FGB20N6S2 | 600 | 13 | 2.2 | 50 | – | – | Power Conversion |
| FGB20N6S2D | 600 | 13 | 2.2 | 50 | – | Yes | Power Conversion |
| HGT1S7N60A4DS | 600 | 14 | 1.9 | 45 | – | Yes | Power Conversion |
| HGT1S7N60A4S | 600 | 14 | 1.9 | 45 | – | – | Power Conversion |
| SGW15N60RUF | 600 | 15 | 2.2 | 118 | Yes | – | Motor, Power Conversion |
| HGT1S20N60C3S | 600 | 20 | 1.4 | 98 | Yes | – | Motor |
| FGB30N6S2 | 600 | 20 | 2 | 90 | – | – | Motor, Power Conversion |
| FGB30N6S2D | 600 | 20 | 2 | 90 | – | Yes | Motor, Power Conversion |
| SGW20N60RUF | 600 | 20 | 2.2 | 152 | Yes | – | Motor, Power Conversion |
| HGT1S12N60A4DS | 600 | 23 | 2 | 18 | – | Yes | Power Conversion |
| HGT1S12N60A4S9A | 600 | 23 | 2 | 95 | – | – | Power Conversion |
| FGB40N6S2 | 600 | 35 | 1.9 | 85 | – | – | Motor, Power Conversion |
| HGT1S10N120BNS | 1200 | 17 | 2.45 | 200 | Yes | – | Motor, Power Conversion |
| TO-264 | | | | | | | |
| SGL50N60RUF | 600 | 50 | 2.2 | 118 | Yes | – | Motor |
| SGL50N60RUFD | 600 | 50 | 2.2 | 118 | Yes | Yes | Motor, Power Conversion |
| SGL160N60UF | 600 | 80 | 2.1 | 75 | – | – | Power Conversion |
| SGL160N60UFD | 600 | 80 | 2.1 | 75 | – | Yes | Power Conversion |
| SGL60N90DG3 | 900 | 42 | 2 | 250 | – | Yes | Induction Heating |
| FGL60N100D | 1000 | 60 | 2.5 | 240 | – | Yes | Induction Heating |
| SGL25N120RUF | 1200 | 25 | 2.3 | 150 | Yes | – | Motor, Power Conversion |
| SGL25N120RUFD | 1200 | 25 | 2.3 | 150 | Yes | Yes | Motor, Power Conversion |

Discrete IGBTs (Continued)

| Part Number | BV_{CES} Min (V) | $I_C@100^\circ\text{C}$ | $V_{CE(sat)}$ Typ (V) | t_f Typ (ns) | Short Circuit Rated | Built in Diode | Primary Applications |
|----------------|--------------------|-------------------------|-----------------------|----------------|---------------------|----------------|--|
| SGL5N150UF | 1500 | 5 | 4.7 | 70 | – | – | High Power SMPS |
| FGL40N150D | 1500 | 40 | 3.5 | 100 | – | Yes | Induction Heating |
| SGL40N150 | 1500 | 40 | 3.7 | 180 | – | – | Induction Heating |
| SGL40N150D | 1500 | 40 | 3.7 | 180 | – | Yes | Induction Heating |
| FGL60N170D | 1700 | 60 | 5 | 100 | – | Yes | Induction Heating |
| TO-3P | | | | | | | |
| SGH13N60UFD | 600 | 6 | 2.1 | 97 | – | Yes | Motor, Power Conversion |
| SGH10N60RUF | 600 | 10 | 2.2 | 158 | Yes | – | Motor, Power Conversion |
| SGH10N60RUFDF | 600 | 10 | 2.2 | 158 | Yes | Yes | Motor, Power Conversion |
| SGH23N60UF | 600 | 12 | 2.1 | 70 | – | – | Motor, Power Conversion |
| SGH23N60UFD | 600 | 12 | 2.1 | 70 | – | Yes | Motor, Power Conversion |
| SGH15N60RUF | 600 | 15 | 2.2 | 118 | Yes | – | Motor, Power Conversion |
| SGH15N60RUFDF | 600 | 15 | 2.2 | 118 | Yes | Yes | Motor, Power Conversion |
| SGH40N60UF | 600 | 20 | 2.1 | 50 | – | – | Induction Heating, Motor, Power Conversion |
| SGH40N60UFD | 600 | 20 | 2.1 | 50 | – | Yes | Induction Heating, Motor, Power Conversion |
| SGH20N60RUF | 600 | 20 | 2.2 | 152 | Yes | – | Motor, Power Conversion |
| SGH20N60RUFDF | 600 | 20 | 2.2 | 152 | Yes | Yes | Motor, Power Conversion |
| SGH30N60RUF | 600 | 30 | 2.2 | 138 | Yes | – | Motor, Power Conversion |
| SGH30N60RUFDF | 600 | 30 | 2.2 | 138 | Yes | Yes | Motor, Power Conversion |
| SGH80N60UF | 600 | 40 | 2.1 | 50 | – | – | Induction Heating, Motor, Power Conversion |
| SGH80N60UFD | 600 | 40 | 2.1 | 50 | – | Yes | Induction Heating, Motor, Power Conversion |
| SGH5N120RUF | 1200 | 5 | 2.3 | 150 | Yes | – | Motor, Power Conversion |
| SGH5N120RUFDF | 1200 | 5 | 2.3 | 150 | Yes | Yes | Motor, Power Conversion |
| SGH10N120RUF | 1200 | 10 | 2.3 | 150 | Yes | – | Motor, Power Conversion |
| SGH10N120RUFDF | 1200 | 10 | 2.3 | 150 | Yes | Yes | Motor, Power Conversion |
| SGH15N120RUF | 1200 | 15 | 2.3 | 150 | Yes | – | Induction Heating, Motor, Power Conversion |
| SGH15N120RUFDF | 1200 | 15 | 2.3 | 150 | Yes | Yes | Induction Heating, Motor, Power Conversion |
| SGH20N120RUF | 1200 | 20 | 2.3 | 150 | Yes | – | Motor, Power Conversion |
| SGH20N120RUFDF | 1200 | 20 | 2.3 | 150 | Yes | Yes | Motor, Power Conversion |
| SGH25N120RUF | 1200 | 25 | 2.3 | 150 | Yes | – | Motor, Power Conversion |
| TO-3PF | | | | | | | |
| SGF23N60UF | 600 | 12 | 2.1 | 70 | – | – | Motor, Power Conversion |
| SGF23N60UFD | 600 | 12 | 2.1 | 70 | – | Yes | Motor, Power Conversion |

Discrete IGBTs (Continued)

| Part Number | BV_{CES} Min (V) | $I_C@100^\circ\text{C}$ | $V_{CE(sat)}$ Typ (V) | t_f Typ (ns) | Short Circuit Rated | Built in Diode | Primary Applications |
|-------------|--------------------|-------------------------|-----------------------|----------------|---------------------|----------------|--|
| SGF15N60RUF | 600 | 15 | 2.2 | 118 | Yes | Yes | Motor, Power Conversion |
| SGF40N60UF | 600 | 20 | 2.1 | 50 | – | – | Induction Heating, Motor, Power Conversion |
| SGF80N60UF | 600 | 40 | 2.1 | 50 | – | – | Motor, Power Conversion |
| SGF15N90D | 900 | 15 | 2 | 200 | – | Yes | Induction Heating |
| SGF5N150UF | 1500 | 5 | 4.7 | 70 | – | – | High Power SMPS |

Ignition IGBTs

| Part Number | BV _{CES} Min (V) | I _C @100°C | V _{CE(sat)} Typ (V) | | t _f Typ (ns) | t _{off} Typ (ns) | SCIS Energy @25°C Min (mJ) | Clamping Voltage Typ (V) |
|---------------------------------|------------------------------|-----------------------|------------------------------|-------------------|-------------------------|---------------------------|----------------------------------|-----------------------------|
| | | | Typ (V) | Test Condition | | | | |
| TO-220 | | | | | | | | |
| ISL9V2040P3 | 390 | 10 | 1.45 | 6A, 4.5V | 2 | 3.64 | 200 | 420 |
| HGTP14N36G3VL | 330 | 14 | 1.6 | 14A, 5V | 3 | 7 | 332 | 380 |
| HGTP14N40F3VL | 350 | 14 | 2 | 10A, 4.5V | 2 | 12 | 330 | 385 |
| ISL9V3036P3 | 330 | 17 | 1.6 | 6A, 4V | 2 | 4.8 | 300 | 360 |
| ISL9V3040P3 | 390 | 17 | 1.6 | 6A, 4V | 2 | 4.8 | 300 | 400 |
| HGTP14N37G3VL | 320 | 18 | 1.6 | 14A, 5V | 3 | 10 | 340 | 350 |
| HGTP20N35G3VL | 320 | 20 | 1.6 | 20A, 5V | 3 | 15 | 775 | 350 |
| ISL9V5036P3 | 360 | 31 | 1.6 | 10A, 4V | 2 | 4.8 | 500 | 360 |
| TO-252(DPAK) | | | | | | | | |
| ISL9V2040D3S | 390 | 10 | 1.45 | 6A, 4.5V | 2 | 3.64 | 200 | 420 |
| ISL9V3036D3S | 330 | 17 | 1.6 | 6A, 4V | 2 | 4.8 | 300 | 360 |
| ISL9V3040D3S | 390 | 17 | 1.6 | 6A, 4V | 2 | 4.8 | 300 | 400 |
| TO-262(I²PAK) | | | | | | | | |
| HGT1S20N36G3VL | 345 | – | 1.3 | – | – | – | – | 380 |
| ISL9V5036S3 | 360 | 31 | 1.6 | 10A, 4V | 2 | 4.8 | 500 | 360 |
| TO-263(D²PAK) | | | | | | | | |
| HGT1S20N36G3VLS | 345 | – | 1.3 | – | – | – | – | 380 |
| ISL9V2040S3S | 390 | 10 | 1.45 | 6A, 4.5V | 2 | 3.64 | 200 | 420 |
| HGT1S14N36G3VLS | 330 | 14 | 1.6 | 14A, 5V | 3 | 7 | 332 | 380 |
| ISL9V3036S3S | 330 | 17 | 1.6 | 6A, 4V | 2 | 4.8 | 300 | 360 |
| ISL9V3040S3S | 390 | 17 | 1.6 | 6A, 4V | 2 | 4.8 | 300 | 400 |
| HGT1S14N37G3VLS | 320 | 18 | 1.6 | 14A, 5V | 3 | 10 | 340 | 350 |
| HGT1S20N35G3VLS | 320 | 20 | 1.6 | 20A, 5V | 3 | 15 | 775 | 350 |
| ISL9V5036S3S | 360 | 31 | 1.6 | 10A, 4V | 2 | 4.8 | 500 | 360 |

IGBT Modules

| Part Number | BV_{CES} Min (V) | $I_C@100^\circ C$ | $V_{CE(sat)}$ Typ (V) | t_f Typ (ns) | Short Circuit Rated | Built in Diode | Primary Applications |
|----------------|--------------------|-------------------|-----------------------|----------------|---------------------|----------------|---|
| 24PM-AA | | | | | | | |
| FMM6620US60 | 600 | 20 | – | 140 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM6620US60S | 600 | 20 | – | 140 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7620US60I | 600 | 20 | – | 80 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7620US60N | 600 | 20 | – | 140 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7620US60SI | 600 | 20 | – | 140 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7620US60SN | 600 | 20 | – | 140 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM6630US60 | 600 | 30 | – | 130 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM6630US60S | 600 | 30 | – | 130 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7630US60I | 600 | 30 | – | 130 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7630US60N | 600 | 30 | – | 200 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7630US60SI | 600 | 30 | – | 140 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7630US60SN | 600 | 30 | – | 130 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM6650US60 | 600 | 50 | – | 120 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7650US60I | 600 | 50 | – | 120 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMM7650US60N | 600 | 50 | – | 120 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| 25PM-AA | | | | | | | |
| FMS6610US60 | 600 | 10 | 2.1 | 100 | Yes | Yes | Rectifier (3-Phase), Inverter (3-Phase) |
| FMS6610US60S | 600 | 10 | 2.1 | 100 | Yes | Yes | Rectifier (1-Phase), Inverter (3-Phase) |
| FMS7610US60 | 600 | 10 | 2.1 | 100 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMS7610US60S | 600 | 10 | 2.1 | 100 | Yes | Yes | Rectifier (1-Phase), Brake, Inverter (3-Phase) |
| FMS6615US60 | 600 | 15 | 2.1 | 100 | Yes | Yes | Rectifier (3-Phase), Inverter (3-Phase) |
| FMS6615US60S | 600 | 15 | 2.1 | 100 | Yes | Yes | Rectifier (1-Phase), Inverter (3-Phase) |
| FMS7615US60 | 600 | 15 | 2.1 | 100 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMS7615US60S | 600 | 15 | 2.1 | 100 | Yes | Yes | Rectifier (1-Phase), Brake, Inverter (3-Phase) |
| FMS6620US60 | 600 | 20 | 2.1 | 100 | Yes | Yes | Rectifier (3-Phase), Inverter (3-Phase) |
| FMS6620US60S | 600 | 20 | 2.1 | 100 | Yes | Yes | Rectifier (1-Phase), Inverter (3-Phase) |
| FMS7620US60 | 600 | 20 | 2.1 | 100 | Yes | Yes | Rectifier (3-Phase), Brake, Inverter (3-Phase) |
| FMS7620US60S | 600 | 20 | 2.1 | 100 | Yes | Yes | Rectifier (1-Phase), Brake, Inverter (3-Phase) |
| 7PM-GA | | | | | | | |
| FMG1650US60H | 600 | 50 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, CVCF, Robotics, Servo Controls |
| FMG1650US60L | 600 | 50 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, CVCF, Robotics, Servo Controls |
| FMG2650US60 | 600 | 50 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |
| FMG1675US60H | 600 | 75 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, CVCF, Robotics, Servo Controls |

IGBT Modules (Continued)

| Part Number | V_{CES} Min (V) | $I_C@100^\circ C$ | $V_{CE(sat)}$ Typ (V) | t_f Typ (ns) | Short Circuit Rated | Built in Diode | Primary Applications |
|---------------|-------------------|-------------------|-----------------------|----------------|---------------------|----------------|---|
| FMG1G75US60L | 600 | 75 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, CVCF, Robotics, Servo Controls |
| FMG2G75US60 | 600 | 75 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |
| FMG1G100US60H | 600 | 100 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, CVCF, Robotics, Servo Controls |
| FMG1G100US60L | 600 | 100 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, CVCF, Robotics, Servo Controls |
| FMG2G100US60 | 600 | 100 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |
| FMG2G150US60E | 600 | 150 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |
| 7PM-HA | | | | | | | |
| FMG2G150US60 | 600 | 150 | 2.2 | 110 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |
| FMG2G200US60 | 600 | 200 | 2.1 | 130 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |
| FMG2G300US60E | 600 | 300 | 2.1 | 140 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |
| 7PM-IA | | | | | | | |
| FMG2G300US60 | 600 | 300 | 2.1 | 140 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |
| FMG2G400US60 | 600 | 400 | 2.1 | 150 | Yes | Yes | Inverters, Welding Machine, UPS, CVCF, Robotics, Servo Controls |

| Part Number | BV _{CES} (Min) (V) | Current Rating (T _C =100°C) (A) | Frequency Typ (kHz) | Motor Rating | | Output Current | | Built in Thermistor? |
|----------------|-----------------------------|---|------------------------|--------------|--------------------|----------------|---------------|-------------------------|
| | | | | (kW) | (V _{AC}) | 100% Load (A) | 150% Load (A) | |
| DIP-SPM | | | | | | | | |
| FSAM10SM60A | 600 | 10 | 5 | 0.5 | 220 | 3.3 | 5 | Yes |
| FSBM10SM60A | 600 | 10 | 5 | 0.5 | 220 | 3.3 | 5 | No |
| FSAM10SH60A | 600 | 10 | 15 | 0.5 | 220 | 3.3 | 5 | Yes |
| FSBM10SH60A | 600 | 10 | 15 | 0.5 | 220 | 3.3 | 5 | No |
| FSAM15SM60A | 600 | 15 | 5 | 0.8 | 220 | 5 | 7.5 | Yes |
| FSBM15SM60A | 600 | 15 | 5 | 0.8 | 220 | 5 | 7.5 | No |
| FSAM15SH60A | 600 | 15 | 15 | 0.8 | 220 | 5 | 7.5 | Yes |
| FSBM15SH60A | 600 | 15 | 15 | 0.8 | 220 | 5 | 7.5 | No |
| FSAM20SM60A | 600 | 20 | 5 | 1.5 | 220 | 8 | 12 | Yes |
| FSBM20SM60A | 600 | 20 | 5 | 1.5 | 220 | 8 | 12 | No |
| FSAM20SH60A | 600 | 20 | 15 | 1.5 | 220 | 8 | 12 | Yes |
| FSBM20SH60A | 600 | 20 | 15 | 1.5 | 220 | 8 | 12 | No |
| FSAM30SM60A | 600 | 30 | 5 | 2.4 | 220 | 11 | 16.5 | Yes |
| FSBM30SM60A | 600 | 30 | 5 | 2.4 | 220 | 11 | 16.5 | No |
| FSAM30SH60A | 600 | 30 | 15 | 2.4 | 220 | 11 | 16.5 | Yes |
| FSBM30SH60A | 600 | 30 | 15 | 2.4 | 220 | 11 | 16.5 | No |

RF Power

| Part Number | Freq | Description | Gain (dB) | Pout (dBm) | | | Vd (V) | Id (mA) | PAE (%) | Input Return Loss | Output Return Loss (dB) | Max Input Pwr (dBm) | Area Sq (mm) |
|--------------|-----------------------|------------------------------------|-----------|------------|--------------------|--------------------|--------|-------------|---------|-------------------|-------------------------|---------------------|--------------|
| (MHz) | | Handset Products | | | ACPR1 (dBc) | ACPR2 (dBc) | | | | | | | |
| RMPA0913C | 824–849 | 3.5V AMPS/CDMA Power Amp | 30 | 32.5 | -48 | -63 | 3.5 | 190 | 56 | | | | 25.81 |
| RMPA0951AT | 824–849 | 3.5V AMPS/CDMA PA Module | 30 | 31.5 | -52 | -58 | 3.5 | 80 | 50 | | | | 36.00 |
| RMPA0959 | 824–849 | 3.5V AMPS/CDMA PA Module | 31 | 28 | -52 | -60 | 3.4 | 100 | 50 | | | | 16.00 |
| RMPA0965 | 824–849 | 3.4V CDMA PA Module | 30 | 28 | -50 | -60 | 3.4 | 55 | 40 | | | | 9.00 |
| RMPA1759 | 1720–1780 | 3.4V Korean PCS CDMA PA Module | 27 | 28 | -50 | -56 | 3.4 | 80 | 38 | 9.5 | | | 16.00 |
| RMPA1902A | 1850–1910 | 3.5V PCS CDMA Power Amp | 30 | 29 | -49 | | 3.5 | 135 | 36 | | | | 25.81 |
| RMPA1959 | 1850–1910 | 3.4V PCS CDMA PA Module | 27 | 28 | -50 | -56 | 3.4 | 80 | 38 | 9.5 | | | 16.00 |
| RMPA1965 | 1850–1910 | 3.4V PCS CDMA PA Module | 28 | 28 | -50 | -60 | 3.4 | 55 | 40 | | | | 9.00 |
| RMPA2059 | 1920–1980 | 3.4V WCDMA/CDMA PA Module | 26 | 27 | -38 | -48 | 3.4 | 80 | 40 | 9.5 | | | 16.00 |
| RMPA2259 | 1920–1980 | 3.4V WCDMA/CDMA PA Module | 26 | 28 | -38 | -48 | 3.4 | 80 | 40 | 9.5 | | | 9.00 |
| (GHz) | | Wireless Products | | | EVM (%) | @PO (dBm) | | | | | | | |
| RMPA2000 | 1.8–2.0 | ISM Band Power Amp | 30 | 28/31 | | | 5/7 | 300, 400 | 35/40 | | | | 25.81 |
| RMPA2450 | 2.4–2.5 | ISM Band PA (Fully Matched) | 30/30 | 28/31 | | | 5/7 | 360 | 35/33 | | | | 25.81 |
| RMPA2451 | 2.4–2.5 | ISM Band PA (Partially Matched) | 33 | 29 | | | 5 | 400 | 38 | 9.5 | | 10 | 25.81 |
| RMPA2451B | 2.4–2.5 | ISM Band PA (Partially Matched) | 33 | 29 | | | 5 | 400 | 38 | 15 | | 10 | 25.81 |
| RMPA2453 | 2.4–2.5 | 2.4-2.5 GHz HBT Linear Power Amp | 26 | 26.5 | 2.8 | 19 | 3.3 | 100 | | 15 | 12 | 10 | 9.00 |
| RMPA5251 | 4.90–5.85 | 4.90-5.85 GHz HBT Linear Power Amp | 27 | 26 | 2 | 18 | 3.3 | 200 | | 12 | 10 | 10 | 9.00 |
| RMPA2550 | 2.4–2.5/ 5.15–5.35 | Dual Band HBT Linear Power Amp | 27/26 | 26/27 | 2 | 16 | 3.3 | 110/ 200 | | 15 | 12 | 10 | 12.00 |
| (MHz) | | Base Station Products | | | OIP3 (dBm) | NF (dB) | | | | | | | |
| RMBA09501 | 869–894 | Cellular 2W Base Station PA | 35 | 33 | 43 | | 7 | 150, 400 | 28.5 | | | <+5 | 25.81 |
| RMBA09501A | 869–894 | Cellular 2W Base Station PA | 35 | 33 | 45 | | 7 | 150, 400 | 28.5 | | | <+5 | 25.81 |
| RMBA19500 | 1930–1990 | PCS 2W Base Station PA | 30 | 33 | 42.5 | | 7 | 180, 445 | 24 | | | <+5 | 25.81 |
| RMBA19500A | 1930–1990 | PCS 2W Base Station PA | 30 | 33 | 45 | | 7 | 180, 445 | 24 | | | <+5 | 25.81 |
| (GHz) | | MMW/WB Products | | | OIP3 (dBm) | NF (dB) | | | | | | | |
| RMM2080 | 2–18 | 2-18 GHz Variable Gain DA | 20 | 21 | – | | 7 | 300 | – | 7 | 7 | 8 | 13.33 |
| RMWB04001 | 3.5–4 | 4 GHz Buffer Amp | 27 | 20 | | | 4 | 36 | | 14 | 12 | 7 | 3.12 |
| RMLA3565C | 3.5–6.5 | 3.5 -6 GHz Packaged LNA | 18 | 9 | 21 | 1.3 | 4 | 70 | | 10 | 10 | 0 | 25.81 |
| RMLA04120 | 4–12 | 18-25 GHz Low Noise Amp | 23 | 5 | | 1 | 3.5 | 10 | | 10 | 10 | -5 | 5.81 |
| RMWL05001 | 4.7–5.2 | 5 GHz LNA | 18 | 15 | | 1.4 | 4 | 76 | | 15 | 15 | 8 | 2.30 |

DISCRETE POWER

RF Power (Continued)

| Part Number | Freq | Description | Gain (dB) | Pout (dBm) | | Vd (V) | Id (mA) | PAE (%) | Input Return Loss | Output Return Loss (dB) | Max Input Pwr (dBm) | Area Sq (mm) |
|-------------|-----------|-------------------------------|-----------|------------|------------|--------|---------|---------|-------------------|-------------------------|---------------------|--------------|
| | (GHz) | MMW/WB Products (Continued) | | | OIP3 (dBm) | | | | | | | |
| | | | | | NF (dB) | | | | | | | |
| RMPA61810 | 6–18 | 6-18 GHz 1W Power Amp | 21 | 32 | – | 8 | 600 | 22 | 9.5 | 7.4 | | 17.49 |
| RMWT04001 | 8.4–12 | 4/12 GHz Tripler | -14 | | | | | | 10 | | 25 | 1.89 |
| RMWB12001 | 8.5–12 | 12 GHz Buffer Amp | 25 | 21 | | 4 | 96 | 26 | 12 | 10 | 8 | 3.74 |
| RMWB11001 | 10.5–11.7 | 11 GHz Buffer Amp | 21 | 19 | | 4 | 36 | 35 | 13 | 18 | 8 | 2.60 |
| RMWW12001 | 17–24 | 12/24 GHz Doubler | -10 | | | | | | 12 | | 22 | 3.75 |
| RMWB24001 | 17–24 | 24 GHz Buffer Amp | 15 | 17 | | 4 | 70 | 15 | 12 | 12 | 11 | 3.75 |
| RMPA19000 | 18–22 | 20 GHz 1W Power Amplifier | 26 | 29 | 37 | 5 | 600 | 32 | 8 | 10 | 15 | 15.58 |
| RMLA18250 | 18–25 | 18-25 GHz Low Noise Amp | 23 | 6 | | 2 | 1 | 46 | 10 | 10 | 0 | 4.50 |
| RMDA1840 | 18–40 | 18 to 40 GHz Driver Amplifier | 22 | 23 | – | 5 | 400 | 15 | 8 | 10 | 15 | 9.34 |
| RMDA20420 | 20–42 | 20 to 42 GHz Driver Amplifier | 22 | 23 | – | 3.5 | 350 | | 12 | 10 | 15 | 1.31 |
| RMWP23001 | 21–24 | 23 GHz Power Amp | 22.5 | 25 | 33 | 3.5 | 400 | 15 | 14 | 12 | 8 | 3.12 |
| RMWM26001 | 21–26.5 | 26 GHz Mixer | -8 | | – | | | | | | 25 | 2.93 |
| RMWD24001 | 21–26.5 | 23/26 GHz Driver Amp | 23 | 18 | – | 4 | 240 | | 10 | 12 | 8 | 3.42 |
| RMWL26001 | 21–26.5 | 23/26 GHz LNA | 22 | 11 | | 2.9 | 4 | 65 | 12 | 12 | 8 | 3.75 |
| RMDA25000 | 23–28 | 25 GHz Driver Amplifier | 30 | 23 | 27 | 5 | 250 | 10 | 10 | 8 | 10 | 4.55 |
| RMPA25000 | 23–26 | 25 GHz Power Amplifier | 18 | 33 | 38 | 5 | 1200 | 22 | 12 | 12 | 20 | 17.22 |
| RMWP26001 | 24–26.5 | 26 GHz Power Amp | 23 | 25 | 33 | 4 | 370 | 16 | 12 | 12 | 8 | 3.42 |
| RMTR10300 | 9–10.75 | 10/30 GHz Tripler | 0 | 17 | | 5 | 75 | | 8 | 7 | 22 | 3.64 |
| RMPA27000 | 27–29 | 27 GHz 1.8W Power Amplifier | 18 | 32.5 | 39 | 5 | 1500 | 20 | 6 | 10 | 22 | 11.92 |
| RMPA29000 | 27–30 | 29 GHz 1W Power Amplifier | 23 | 30 | 36 | 5 | 700 | 25 | 10 | 10 | 18 | 15.34 |
| RMDA29000 | 27–31 | 29 GHz Driver Amplifier | 22 | 23 | 30 | 5 | 250 | 8 | 10 | 8 | 10 | 5.52 |
| RMPA29400 | 27–32 | 29 GHz 3.5W Power Amplifier | 25 | 34.5 | 42 | 5 | 1600 | 22 | 10 | 10 | 22 | 16.18 |
| RMPA29300 | 29–30 | 29 GHz 2W Power Amplifier | 22.0 | 34.0 | – | 5 | 1600 | | | | | 18.94 |
| RMPA29200 | 29–31 | 29 GHz 2W Power Amplifier | 17.0 | 33.0 | 38.0 | 5 | 1500 | 20 | 12 | 10 | 22 | 11.92 |
| RMWD15300 | 15–30 | 15/30 GHz Doubler/Driver Amp | 21.0 | 24.0 | | 5 | 275 | | | | 5 | 3.26 |
| RMWP15300 | 15–30 | 15/30 GHz Doubler/Power Amp | 34.0 | 34.0 | | 5 | 1800 | | | | 5 | 16.63 |
| RMLA31400 | 31–40 | 31-40 GHz Low Noise Amp | 20.0 | 0.0 | | 1.8 | 1.9 | 16 | 10 | 10 | 0 | 2.81 |
| RMWB33001 | 32–35 | 33 GHz Buffer Amp | 24.0 | 19.0 | | 4 | 112 | 15 | 12 | 12 | 8 | 3.84 |
| RMWT11001 | 32–35 | 11/33 GHz Tripler | -14.5 | | | | | | 11 | | 22 | 1.68 |
| RMTR13390 | 36–40.5 | 13/39 GHz Tripler | -5.0 | 12.0 | | 5 | 100 | | 8 | 7 | 22 | 3.64 |
| RMPA39000 | 37–40 | 39 GHz 700mW Power Amp | 15.0 | 28.0 | – | 5 | 700 | 15 | 8 | 7 | 20 | 12.43 |
| RMPA39100 | 37–40 | 39 GHz 1W Power Amplifier | 18.0 | 30.0 | 38.0 | 5 | 1000 | 17 | 10 | 7 | 18 | 13.65 |
| RMPA39200 | 37–40 | 39 GHz 1.6W Power Amplifier | 19.0 | 32.0 | 38.5 | 5 | 1600 | 17 | 10 | 10 | 18 | 13.65 |
| RMPA39300 | 37–40 | 39 GHz 2W Power Amplifier | 16.0 | 33.0 | 40.0 | 5 | 2500 | 14 | 9 | 9 | | 19.75 |
| RMWM38001 | 37–40 | 38 GHz Mixer | -6.5 | | | | | | | | 25 | 1.96 |
| RMWD38001 | 37–40 | 38 GHz Driver Amp | 25.0 | 19.0 | 28.0 | 4 | 105 | 13 | 15 | 9 | 8 | 3.60 |
| RMWP38001 | 37–40 | 38 GHz Power Amp | 22.0 | 23.5 | 30.0 | 4 | 250 | 15 | 12 | 7 | 8 | 4.76 |
| RMWL38001 | 37–40 | 38 GHz LNA | 22.0 | 15.0 | | 2.7 | 4 | 50 | 12 | 13 | 6 | 3.63 |

RF Power (Continued)

| Part Number | Freq | Description | Gain (dB) | Pout (dBm) | | | Vd (V) | Id (mA) | PAE (%) | Input Return Loss | Output Return Loss (dB) | Max Input Pwr (dBm) | Area Sq (mm) |
|-------------|---------------|-----------------------------|-----------|------------|------------|---------|--------|---------|---------|-------------------|-------------------------|---------------------|--------------|
| (GHz) | OEIC Products | | | | OIP3 (dBm) | NF (dB) | | | | | | | |
| RMDA00100 | 0–20 | OC-192 Modulator Driver Amp | 11.0 | 23.0 | | 7.0 | 8.0 | 100 | | | | | 6.45 |
| RMDA00400 | 0–43 | OC-768 Modulator Driver Amp | 10.0 | 19.0 | | 7.0 | 8.0 | 130 | | | | | 4.92 |
| RMLA00400 | 0–45 | 40 Gb/s Trans-Impedance Amp | 16.0 | | | 2.5 | 3.5 | 130 | | | | | 6.31 |

Discrete

 PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>
BGA MOSFET

| Package Name | Products | | | | | Packaging Standard | | | |
|--------------|----------|---------|-------|-------|------|--------------------|-----------|-----------------|-----------------|
| | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| 1.5x1.5mm | X | | | | | Tape & Reel | 3K | 7 | 8 |
| 2x2mm | X | | | | | Tape & Reel | 3K | 7 | 8 |
| 2x2.5mm | X | | | | | Tape & Reel | 3K | 7 | 8 |
| 2.5x4mm | X | | | | | Tape & Reel | 3K | 7 | 12 |
| 4x3.5mm | X | | | | | Tape & Reel | 3K | 13 | 12 |
| 5.5x5mm | X | | | | | Tape & Reel | 3K | 13 | 12 |

Note: Refer to individual product datasheet for specific product package dimensions

Surface Mount

| Package Name | Prefixes | Suffixes | Products | | | | | Packaging Standard | | | | |
|------------------|---|--|----------|---------|-------|-------|------|------------------------|-------------|-----------------|-----------------|----|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) | |
| DIP-8 | FQG | | X | | | | | Tube | 3K | n/a | n/a | |
| DPAK (TO-252-2L) | RHRD RURD Any | S S DS2 | | | X | | | Tape & Reel | 2.5K | 13 | 16 | |
| DPAK (TO-252-3L) | IRFR RFD RLD FDD Any HPLR MTD RURD RHRD HGTD | SM SM D3S CCS CCS S | X | X | | | | X | Tape & Reel | 2.5K | 13 | 16 |
| DPAK (TO-252-3L) | FQD MJD KSH IRFR IRLR SFR SSR | A, B, C | X | X | X | X | X | Tape & Reel (TM/XM) | 2.5K | 13 | 16 ± 0.2 | |
| DPAK (TO-252-3L) | FQD MJD KSH IRFR IRLR SFR SSR | A, B, C | X | X | X | X | X | Tape & Reel (TF/X) | 2K | 13 | 16 | |

Note: Refer to individual product datasheet for specific product package dimensions

Discrete (Continued)

 PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>
Surface Mount (Continued)

| Package Name | Prefixes | Suffixes | Products | | | | | Packaging Standard | | | |
|----------------|----------|----------|----------|---------|-------|-------|------|--------------------|-----------|-----------------|-----------------|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| LL-34 | | | | | X | | | Tape & Reel | 2.5K | 7 | 8 |
| LL-34 | | | | | X | | | Bulk | 1K | 13 | 8 |
| MicroFET 3x2 | FDM | | X | | | | | Tape & Reel | 3K | 7 | 8 |
| MicroFET 3x3 | FDM | | X | | | | | Tape & Reel | 3K | 7 | 12 |
| SC70-5 | | | X | | | | | Tape & Reel | 3K | 7 | 8 |
| SC70-5 | | | X | | | | | Tape & Reel | 10K | 13 | 8 |
| SC70-6 | | | X | X | | | | Tape & Reel | 10K | 13 | 8 |
| SC70-6 | | | X | X | | | | Tape & Reel | 3K | 7 | 8 |
| SC75-6 FLMP | | | X | | | | | Tape & Reel | 3K | 7 | 8 |
| SDIP | | | | X | X | | | Tape & Reel | 1.5K | 13 | 16 |
| DO-214AC (SMA) | | | | | X | | | Tape & Reel | 5K | 13 | 12 |
| DO-214AA (SMB) | | | | | X | | | Tape & Reel | 3K | 13 | 12 |
| DO-214AB (SMC) | | | | | X | | | Tape & Reel | 3K | 13 | 16 |
| SOD-123 | | | | | X | | | Tape & Reel | 10K | 13 | 8 |
| SOD-123 | | | | | X | | | Tape & Reel | 3K | 7 | 8 |
| SOIC-4 | | | X | | X | | | Tape & Reel | 2.5K | 13 | 12 |
| SOIC-8 | | | X | | | | | Tape & Reel | 2.5K | 13 | 12 |
| SOIC-8 | | | X | | | | | Tape & Reel | 500 | 7 | 12 |
| SOIC-8 | | | X | | | | | Rail/Tube | 95 | n/a | n/a |
| SOIC-8 FLMP | | | X | | | | | Tape & Reel | 2.5K | 13 | 12 |
| SOIC-14 | | | X | X | | | | Tape & Reel | 2.5K | 13 | 16 |
| SOIC-16 | | | X | | | | | Tape & Reel | 2.5K | 13 | 16 |
| SOIC-16 | | | X | | | | | Rail/Tube | 45 | n/a | n/a |
| SOP-8 | | | X | | | | X | Tape & Reel (TF) | 3K | 13 | 12 |
| SOP-8 | | | X | | | | X | Tape & Reel (STF) | 2K | 13 | 12 |
| SOP-8 | | | X | | | | X | Rail/Tube | 90 | | |

Note: Refer to individual product datasheet for specific product package dimensions

Discrete (Continued)

PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>

Surface Mount (Continued)

| Package Name | Prefixes | Suffixes | Products | | | | | Packaging Standard | | | |
|-------------------|--|----------|----------|---------|-------|-------|------|------------------------|-----------|-----------------|-----------------|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| SOT-23 (TO-236AB) | 2N BA BC BCV BCW BCX BSR BSS FDV MMBF MMBFJ MMBT MMBTA MMBTH NDS | | X | X | X | X | | Tape & Reel | 10K | 13 | 8 |
| SOT-23 (TO-236AB) | 2N BA BC BCV BCW BCX BSR BSS FDV MMBF MMBFJ MMBT MMBTA MMBTH NDS | | X | X | X | X | | Tape & Reel | 3K | 7 | 8 |
| SOT-23 | BC KST KSC KSA KSR KSK | | | X | X | | | Tape & Reel | 3K | 13 | 8 ± 0.3 |
| SOT-89 | | | | X | X | | | Tape & Reel | 4K | 13 | 12 |
| SOT-223 | BCP BSP FDT FZT NDT NZT PZT PZTA | | X | X | | X | | Tape & Reel | 2.5K | 13 | 12 |

Note: Refer to individual product datasheet for specific product package dimensions
Bold = preferred package

Discrete (Continued)

PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>

Surface Mount (Continued)

| Package Name | Prefixes | Suffixes | Products | | | | | Packaging Standard | | | |
|-------------------------------|--|--------------------------|----------|---------|-------|-------|------|------------------------|-----------|-----------------|-----------------|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| SOT-223 | BCP BSP FDT FZT NDT NZT PZT PZTA | | X | X | | X | | Tape & Reel | 500 | 7 | 12 |
| SOT-223 | FQT IRF SFM | | X | X | X | | | Tape & Reel | 4K | 13 | 12 |
| SOT-227 (ISOTOP) | | | X | | X | | X | Tube | 10 | | |
| SOT-323 | | | | X | | | | Tape & Reel | 3K | 7 | 8 |
| SOT-563F | | | | X | | | | Tape & Reel | 3K | 7 | 8 |
| SOT-623F | | | | X | | | | Tape & Reel | 3K | 7 | 8 |
| SuperSOT-3 | | | X | X | | | | Tape & Reel | 10K | 13 | 8 |
| SuperSOT-3 | | | X | X | | | | Tape & Reel | 3K | 7 | 8 |
| SuperSOT-6 | | | X | X | | | | Tape & Reel | 10K | 13 | 8 |
| SuperSOT-6 | | | X | X | | | | Tape & Reel | 3K | 7 | 8 |
| SuperSOT-6 FLMP | | | X | X | | | | Tape & Reel | 3K | 7 | 8 |
| SuperSOT-8 | | | X | | | | | Tape & Reel | 3K | 13 | 12 |
| SuperSOT-8 | | | X | | | | | Tape & Reel | 500 | 7 | 12 |
| TO-263/D ² PAK -2L | RUR1S RHR1S Any | S S S2S | | | X | | | Tape & Reel | 800 | 13 | 24 |
| TO-263/D ² PAK | FDB FGB NDB RF1S HGT1S Any RUR1S RHR1S MUR1S | SM S S3S S S | X | X | | | | Tape & Reel | 800 | 13 | 24 |
| TO-263/D ² PAK | FQB IRF SSW SFW | | X | X | X | X | X | Tape & Reel™ | 800 | 13 | 24 ± 0.3 |
| TO-268 (D ³ PAK) | | | X | | | | X | Tube | 30 | | |

Note: Refer to individual product datasheet for specific product package dimensions

Bold = preferred package

Discrete (Continued)

 PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>
Surface Mount (Continued)

| Package Name | Prefixes | Suffixes | Products | | | | | Packaging Standard | | | |
|--------------|----------|----------|----------|---------|-------|-------|------|--------------------|-----------|-----------------|-----------------|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| TSOP-6 | | | X | | | | | Tape & Reel | 3000 | 13 | 12 |
| TSSOP-8 | | | X | X | | | | Tape & Reel | 2.5K | 13 | 16 |

Note: Refer to individual product datasheet for specific product package dimensions

Through-Hole

| Package Name | Prefixes | Suffixes | Products | | | | | Packaging Standard | | | |
|---------------------|--|--------------------|----------|---------|-------|-------|------|--------------------|-----------|-----------------|-----------------|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| DO-15 | | | | | X | | | Tape & Reel | 4K | 13 | 64 |
| DO-35 | | | | | X | | | Tape & Reel | 10K | 13 | 64 |
| DO-35 | | | | | X | | | Ammo Box | 5K | n/a | 64 |
| DO-35 | | | | | X | | | Bulk | 1K | n/a | n/a |
| DO-41 Glass | | | | | | | | Tape & Reel | 3K | 10.5 | 64 |
| DO-41 Glass | | | | | | | | Ammo Box | 3K | n/a | 64 |
| DO-41 Plastic | | | | | X | | | Tape & Reel | 5K | 13 | 64 |
| DO-201AD | | | | | X | | | Tape & Reel | 1.25K | 13 | 64 |
| DO-201AE | | | | | X | | | Tape & Reel | 1.25K | 13 | 64 |
| DIP | | | X | X | X | | | Tube | 5K | n/a | n/a |
| GBU | | | X | X | X | | | Tube | 800 | n/a | n/a |
| GBPC | | | | X | X | | | Box | 500 | n/a | n/a |
| GBPC-W | | | | X | X | | | Box | 500 | n/a | n/a |
| HEXDIP | | | X | | | | | Tube | 100 | | |
| IPAK (TO-251-2L) | RURD RHRD Any | CC CC D2 | | | X | | | Tube | 75 | n/a | n/a |
| IPAK (TO-251-3L) | IRFU RFD RLD FDU Any HPLU RURD RHRD HGTD | D3 CC CC | X | | X | | X | Tube | 75 | n/a | n/a |

Note: Refer to individual product datasheet for specific product package dimensions

Discrete (Continued)

PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>

Through-Hole (Continued)

| Package Name | Prefixes | Suffixes | Products | | | | | Packagig Standard | | | | |
|--------------------------------|---|----------|----------|---------|-------|-------|------|-------------------|-------------|-----------------|-----------------|-----|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) | |
| I ² PAK (TO-251-3L) | FQU SSU IRFU SGU | I | X | X | | | | X | Bulk | 4K | n/a | n/a |
| I ² PAK (TO-251-3L) | FQU SSU IRFU SGU | I | X | X | | | | X | Tube | 70 | n/a | n/a |
| I ² PAK | | | X | X | X | X | X | X | Tube | 50 | n/a | n/a |
| KBL | | | | X | X | | | | Box | 2K | n/a | n/a |
| KBU | | | | X | X | | | | Box | 2K | n/a | n/a |
| KBPM | | | | X | X | | | | Tube | 1.2K | n/a | n/a |
| Stretch-247 | | | X | | | | | X | Tube | 30 | | |
| TO-205AF/TO-39 | | | X | | | | | | Tray | 100 | | |
| TO-3P/TO-247AD | | | | X | X | | | | Tube | 1.5K | n/a | n/a |
| TO-3P | | | X | X | X | X | X | X | Tube | 30 | n/a | n/a |
| TO-3PF | | | X | X | X | X | X | X | Tube | 30 | n/a | n/a |
| TO-92L | | | X | X | | | | | Bulk | 6K | n/a | n/a |
| TO-92L | | | X | X | | | | | Ammo | 2K | 14 | 41 |
| TO-92S | | | | X | X | | | | Bulk | 10K | n/a | n/a |
| TO-92S | | | | X | | | | | Ammo | 3K | 14 | 35 |
| TO-92 | 2N J P U BC BCX BF BS BSS MPF MPS MPSA MPSH MPSL NDF PF PN SS TIS | | X | X | | | X | | Tape & Reel | 2K | 14 | 18 |

PACKAGING

Note: Refer to individual product datasheet for specific product package dimensions

Bold = preferred package

Discrete (Continued)

PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>

Through-Hole (Continued)

| Package Name | Prefixes | Suffixes | Products | | | | | Packagig Standard | | | |
|--------------|---|----------|----------|---------|-------|-------|------|-------------------|-----------|-----------------|-----------------|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| TO-92 | 2N J P U BC BCX BF BS BSS MPF MPS MPSA MPSH MPSL NDF PF PN SS TIS | | X | X | | X | | Ammo Box | 2K | n/a | 18 |
| TO-92 | | J61Z | | X | | | | Bulk | 1.5K | n/a | n/a |
| TO-92 | 2N J P U BC BCX BF BS BSS MPF MPS MPSA MPSH MPSL NDF PF PN SS TIS | | X | X | | X | | Bulk | 1.5K-3.5K | n/a | n/a |
| TO-92 | KSC KSP KSA SS KSD KSB | | | X | X | X | | Bulk (BU) | 10K | n/a | n/a |

Note: Refer to individual product datasheet for specific product package dimensions

Discrete (Continued)

 PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>
Through-Hole (Continued)

| Package Name | Prefixes | Suffixes | Products | | | | | Packagig Standard | | | | |
|-----------------------------------|---------------------------------------|----------|----------|---------|-------|-------|------|-------------------|------------------|-----------------|-----------------|-----|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) | |
| TO-92 | KSC KSP KSA SS KSD KSB | | | X | X | | | | Tape & Reel (TF) | 2K | 14 | 36 |
| TO-92 | KSC KSP KSA SS KSD KSB | | | X | X | | | | Tape & Ammo (TA) | 2K | n/a | n/a |
| TO-92; TO-18 Lead Form STD | | | | X | X | X | | | Bulk | 2K | n/a | n/a |
| TO-92; TO-18 Reverse Lead Form | | | | X | X | X | | | Bulk | 2K | n/a | n/a |
| TO-92; TO-5 Standard Lead Form | | | | X | X | X | | | Bulk | 1.5K | n/a | n/a |
| TO-126 | | | | X | X | | | | Bulk | 2K | n/a | n/a |
| TO-126 | | | | X | X | | | | Tube (TU) | 60 | n/a | n/a |
| TO-218-1L | | | | | X | | | | Tube | 30 | | |
| TO-218AC | | | | | X | | | | Tube | 30 | | |
| TO-220 | FDP NDP | | X | X | | | | | Bulk | 300 | n/a | n/a |
| TO-220 | FDP NDP | | X | X | | | | | Rail/Tube | 45 | n/a | n/a |
| TO-220 | FQP SSP IRF SFP SFH | | X | X | X | X | X | | Bulk | 1.2K | n/a | n/a |
| TO-220 | FQP SSP IRF SFP SFH | | X | X | X | X | X | | Tube | 50 | n/a | n/a |
| TO-220 (Short Lead) | | TSTU | X | X | | | | | Tube | 50 | n/a | n/a |
| TO-220AB | | | | X | X | | | | Tube | 2K | n/a | n/a |
| TO-220AC | | | | | X | | | | Tube | 2K | n/a | n/a |
| TO-220F | | | | X | X | | | | Bulk | 1.2K | n/a | n/a |

Note: Refer to individual product datasheet for specific product package dimensions

Discrete (Continued)

PDF links for all the packaging information is at: <http://www.fairchildsemi.com/products/discrete/packaging/pkg.html>

Through-Hole (Continued)

| Package Name | Prefixes | Suffixes | Products | | | | | Packaging Standard | | | |
|----------------------|----------|----------|----------|---------|-------|-------|------|--------------------|-----------|-----------------|-----------------|
| | | | MOSFET | Bipolar | Diode | JFETs | IGBT | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| TO-220F | | | | X | X | | | Tube | 50 | n/a | n/a |
| TO-220F-2L | | | X | X | X | X | X | Tube | 50 | n/a | n/a |
| TO-226AE | | | X | X | | | | Tape & Reel | 2K | 13 | 0.708 |
| TO-226AE | | | X | X | | | | Ammo Box | 2K | n/a | 0.2 ± 0.19 |
| TO-247-2L | | | | | X | | | Tube | 30 | | |
| TO-247-3L | | | X | | X | | X | Tube | 30 | | |
| TO-264 | | | X | X | X | X | X | Tube | 25 | n/a | n/a |
| TO-264 (P Option) | | P | | X | | | | Tube | 25 | n/a | n/a |
| WOB | | | | | X | | | Box | 1K | n/a | n/a |

Note: Refer to individual product datasheet for specific product package dimensions

Bold = preferred package

Module

| Package name | Products | | | | | | Packaging Standard | | | |
|------------------|----------|---------|-------|-------|------|-----|--------------------|-----------|-----------------|-----------------|
| | MOSFET | Bipolar | Diode | JFETs | IGBT | SPM | Pkg Method | Qty (pcs) | Reel Dia (inch) | Tape Width (mm) |
| 7PM-GA (Molding) | | | | | X | | Bulk | 48 | n/a | n/a |
| 7PM-HA | | | | | X | | Bulk | 40 | n/a | n/a |
| 7PM-IA | | | | | X | | Bulk | 40 | n/a | n/a |
| 24PM-AA | | | | | X | | Bulk | 40 | n/a | n/a |
| 25PM-AA | | | | | X | | Bulk | 120 | n/a | n/a |
| SPM30-AA | | | | | | X | Tray | 240 | n/a | n/a |
| SPM32-AA | | | | | | X | Tube | 384 | n/a | n/a |
| SPM35-AA | | | | | | X | Tube | 280 | n/a | n/a |

Note: Refer to individual product datasheet for specific product package dimensions

Discrete

MOSFET: DMOS

FD S 6680 S

Additional Information

- C: Complementary N & P
 - N: N-Channel
 - P: P-Channel
 - S: SyncFET
 - Z: Zener gate protection
 - N3: FLMP (3 source leads)
 - N7: FLMP (7 source leads)
 - F: Fast Body Diode
- } Only on packages small than SO-8

DIE Number

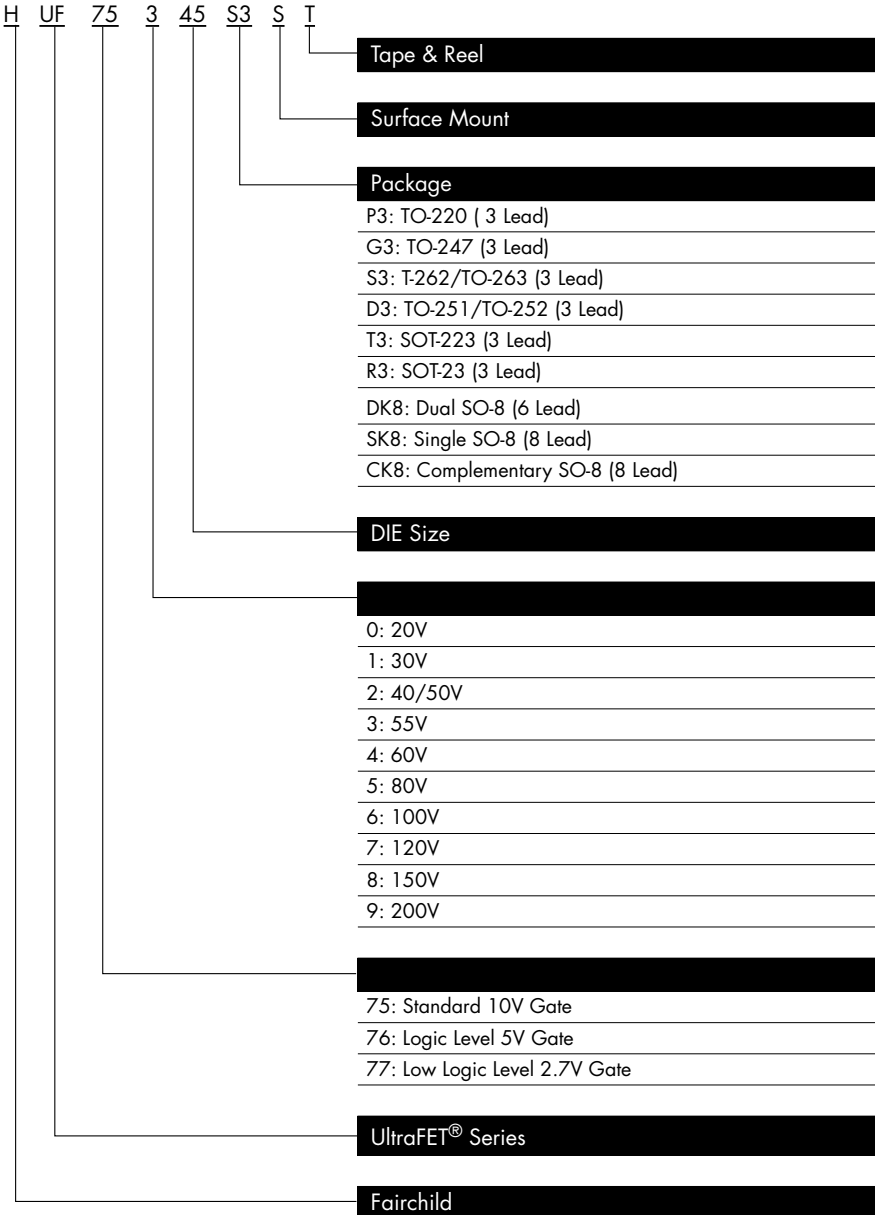
Package

| | |
|---------------|---------------|
| B: TO-263 | P: TO-220 |
| C: SuperSOT-6 | Q: SO-14 |
| D: TO-252 | R: SuperSOT-8 |
| G: SC70-6 | S: SO-8 |
| H: TO-247 | T: SOT-223 |
| I: TO-262 | U: TO-251 |
| M: MicroFET | W: TSSOP-8 |
| N: SuperSOT-3 | Z: BGA |

Fairchild DMOS

Discrete (Continued)

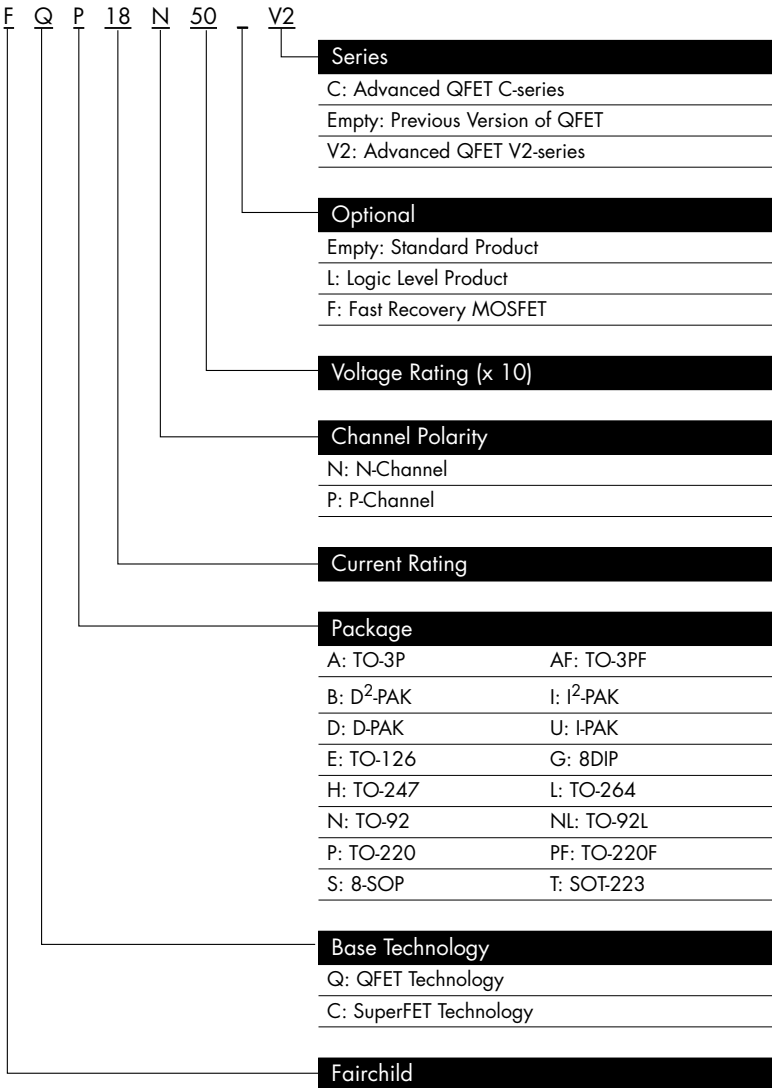
MOSFET: UltraFET®



ORDERING INFORMATION

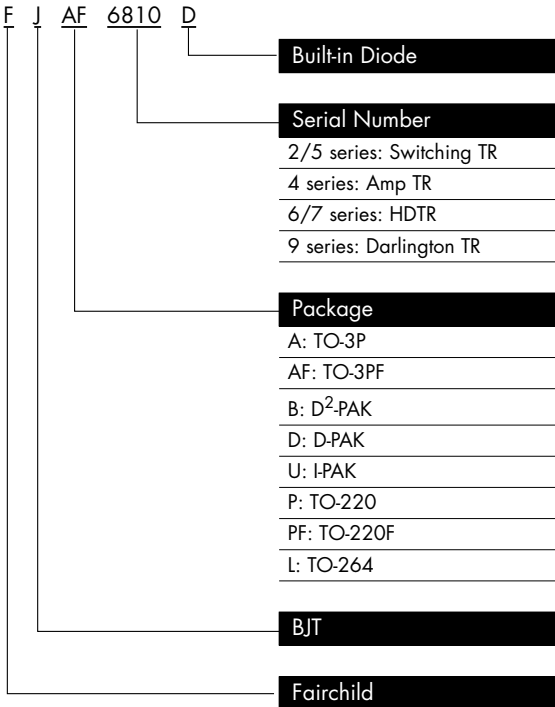
Discrete (Continued)

MOSFET: QFET™

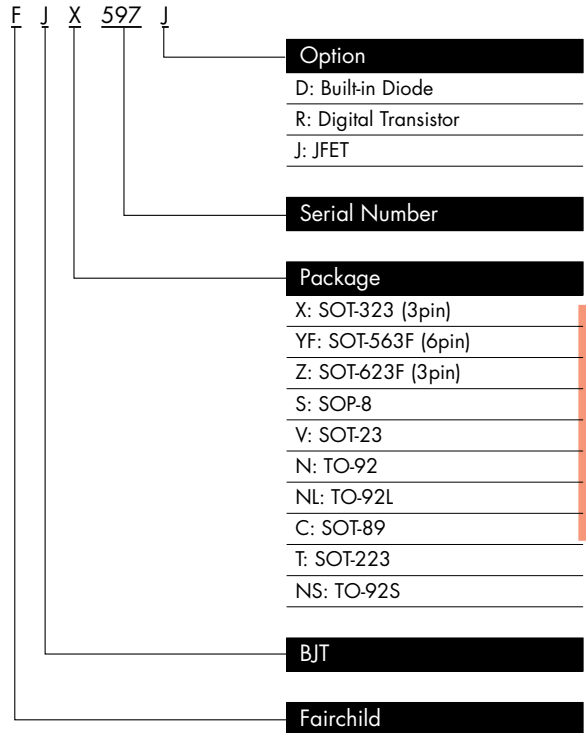


Discrete (Continued)

Bipolar Power Transistor



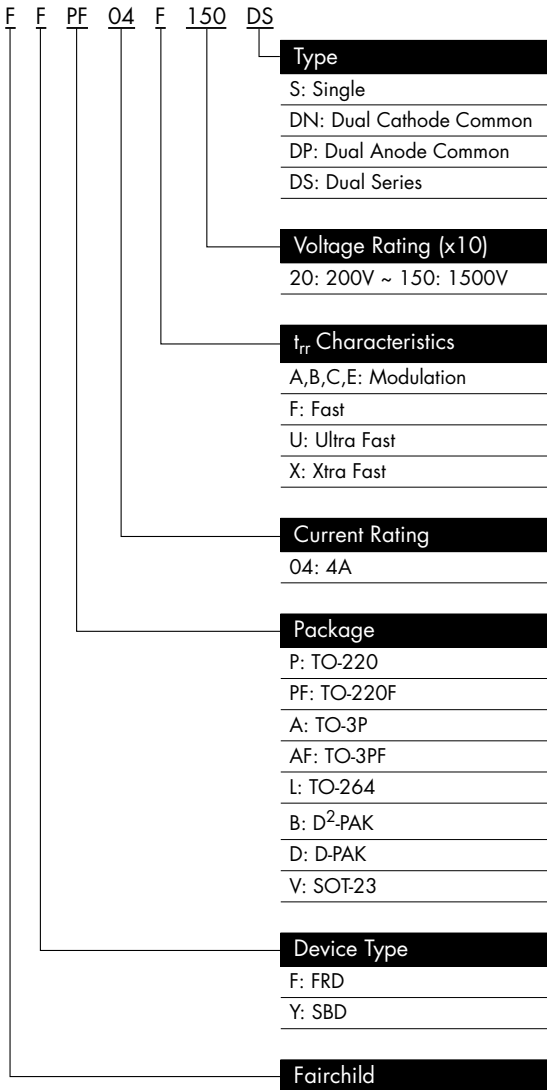
Small Signal Transistor



ORDERING INFORMATION

Discrete (Continued)

Diode



Discrete (Continued)

STEALTH™ Rectifier

ISL 9 R 15 60 G2

| |
|--|
| Package |
| P2: TO-220 (2 Lead) 5A3: TO-247ST |
| G2: TO-247 (2 Lead) IY3: TO-264 |
| G3: TO-247 (3 Lead) IN4: SOT-227 |
| S3: TO-263 (D ² PAK) P3: TO-220 (3 Lead) |
| D3: TO-251/252 (DPAK) (2 Lead) |
| Voltage Breakdown/10 |
| i.e., (600, 1200) |
| Current Rating |
| Configuration |
| R: Rectifier |
| K: Common Cathode |
| Discrete Power |
| Fairchild |

ORDERING INFORMATION

Discrete (Continued)

Fast Rectifier

RHR G 30 60 CC

Options

CC: Common Cathode

S: Surface Mount

Voltage Rating/10

i.e., (600)

Continuous Current Rating

Package Types

D: 2 & 3 Lead TO-251/TO-252

1S: 2 & 3 Lead TO-262/TO-263

P: 2 & 3 Lead TO-220

G: 2 & 3 Lead TO-247

H: 2 & 3 Lead TO-218

Y: 2 & 3 Lead TO-264

U: 1 Lead TO-218

Recovery Speed

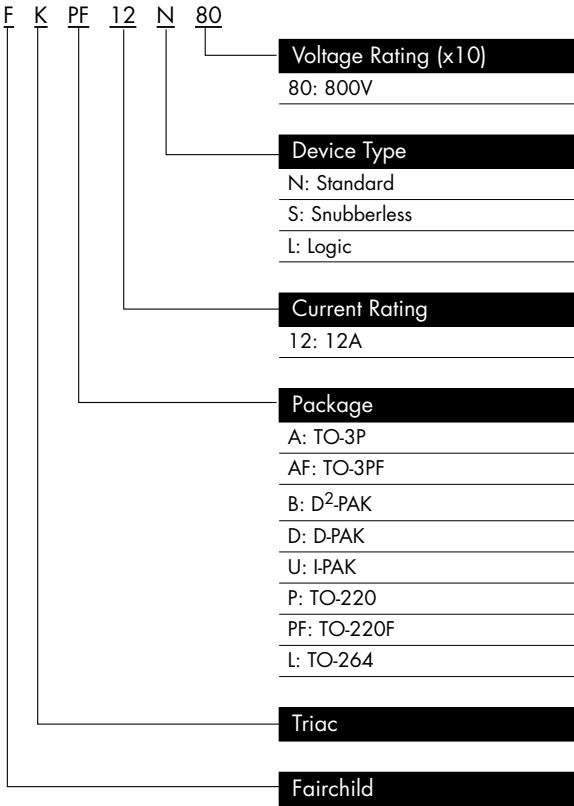
RHR: Rectifier HYPERFAST Recovery

RUR: Rectifier UltraFast Recovery

MUR: Motorola Direct Cross

Discrete (Continued)

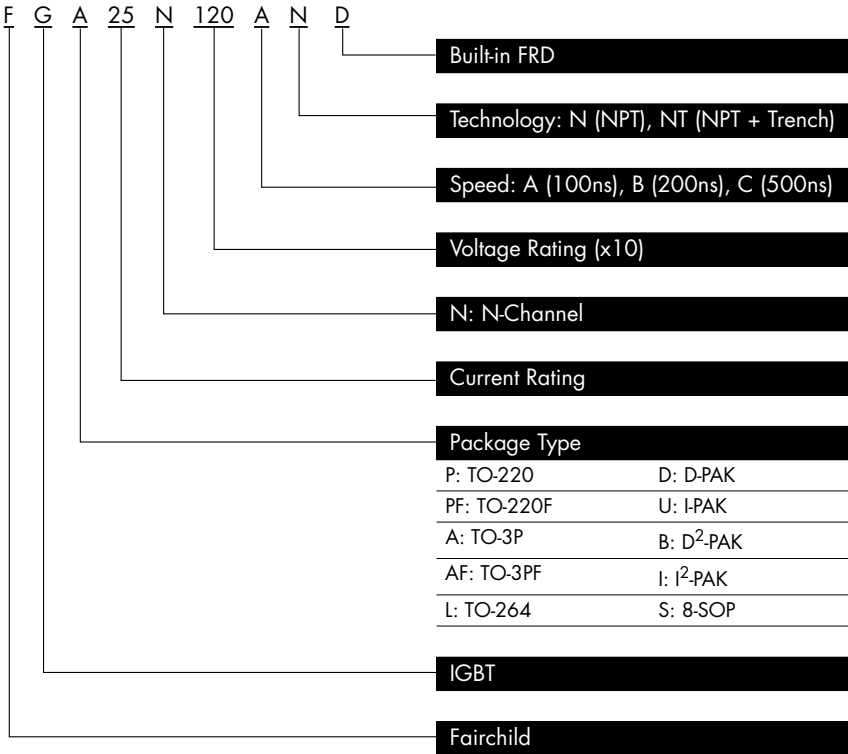
Triac



ORDERING INFORMATION

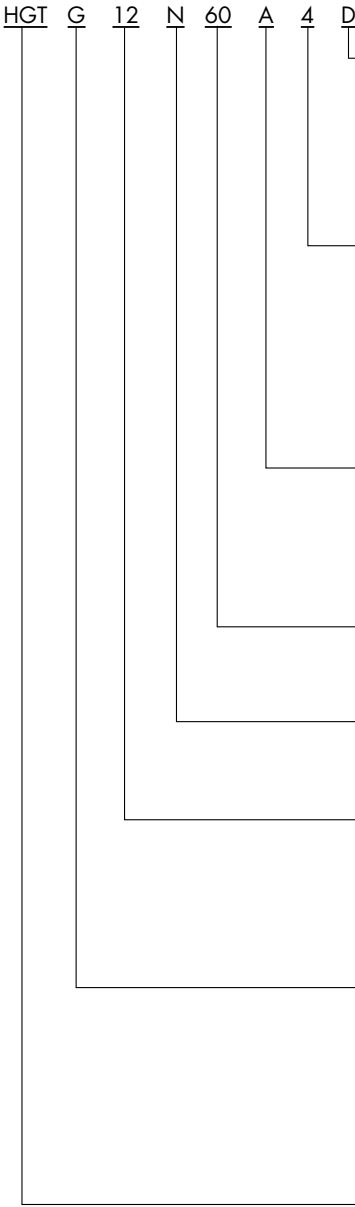
Discrete (Continued)

Discrete IGBT



Discrete (Continued)

Discrete IGBT (SMPS I)



Options

D: Integral Reverse Diode

S: Surface Mount

C: Current Sense

V: Voltage Clamping

1: First Generation

2: Second Generation

3: Third Generation

4: SMPS

N: NPT

Max Fall Time At $T_j = +150^\circ\text{C}$

A: 100ns E: $\leq 1\mu\text{s}$

B: 200ns F: $\leq 2\mu\text{s}$

C: 500ns G: $\leq 5\mu\text{s}$

Voltage Breakdown/10

i.e., (600, 1200)

Polarity

N-Channel or P-Channel

SMPS Rated Current

Rating at $T_C = +75^\circ\text{C}$ 100kHz Operation

Gen. 1, 2, 3 Continuous Current

Rating at $T_C = +110^\circ\text{C}$

Package

D: 3 Lead TO-251/TO-252

1S: 3 Lead TO-262/TO-263

P: 3 Lead TO-220

G: 3 Lead TO-247

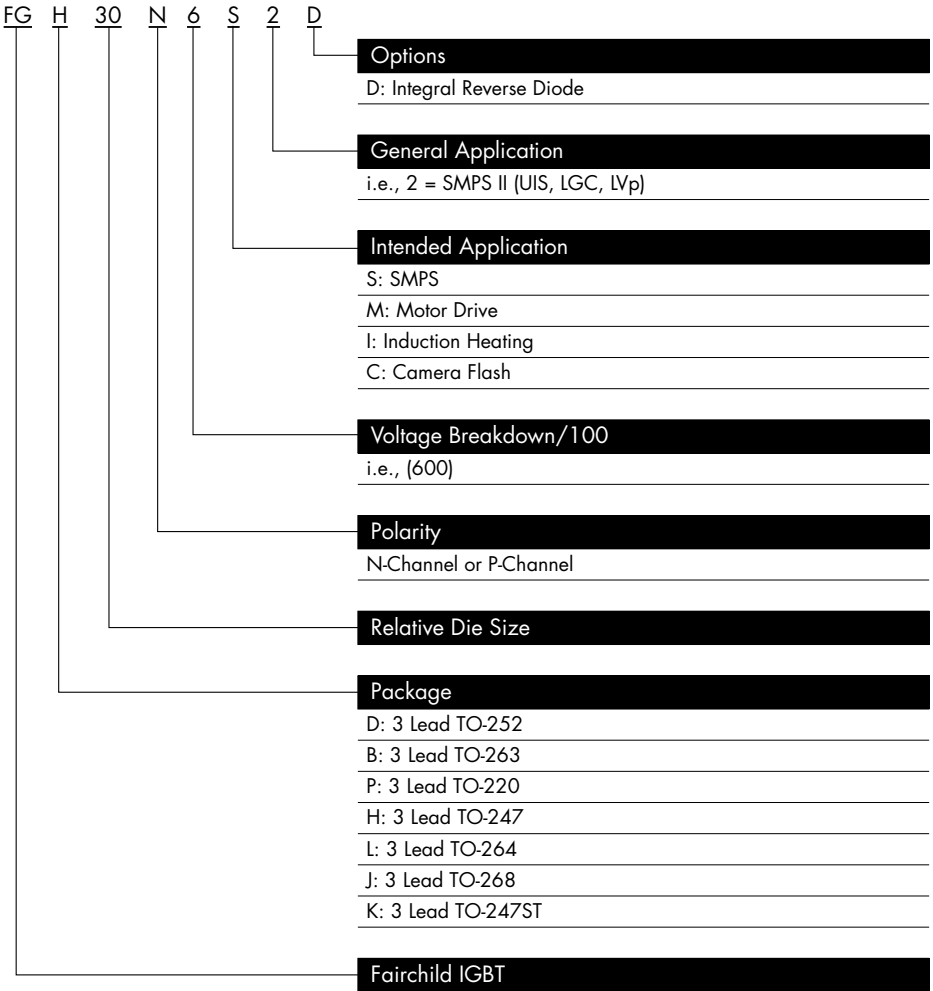
1Y: 3-Lead TO-264

Fairchild

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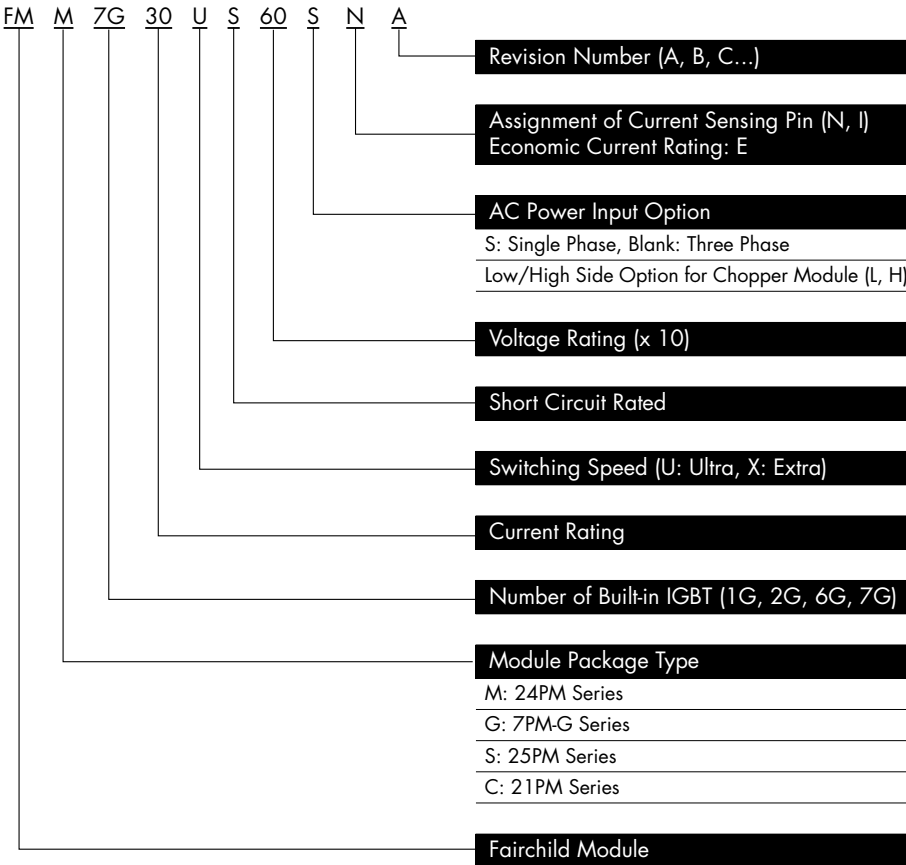
Discrete (Continued)

Discrete IGBT (SMPS II)



Discrete (Continued)

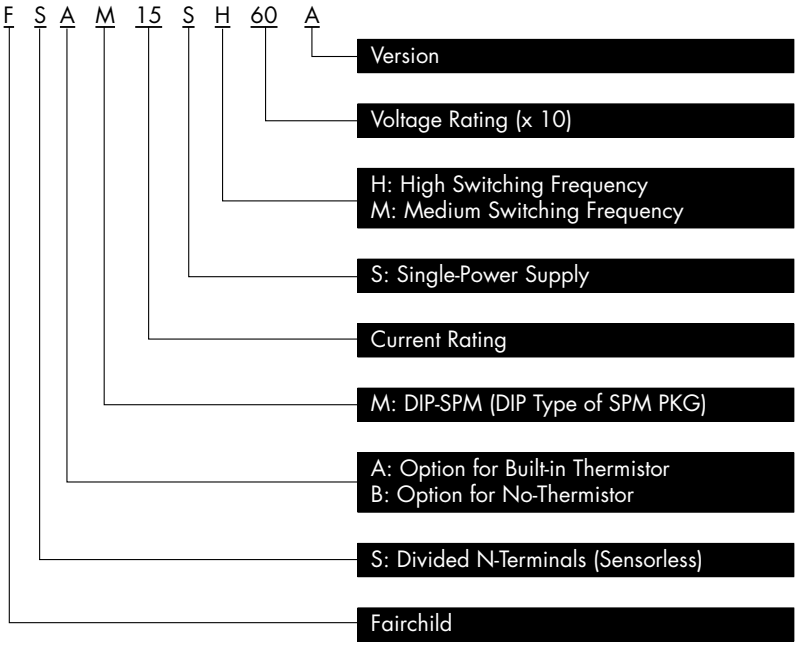
IGBT Module



ORDERING INFORMATION

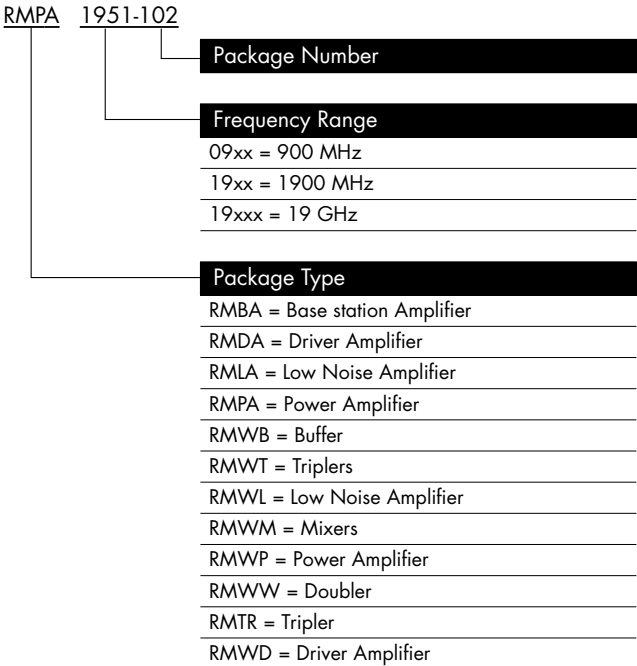
Discrete (Continued)

SPM™



Discrete (Continued)

RF Power



ORDERING INFORMATION

Fairchild Semiconductor offers a wide range of design tools including online selection and simulation tools, software downloads, and developer kits. Details can be found below. The web site for this information is http://www.fairchildsemi.com/design_tools/

Models and Simulation Tools

<http://www.fairchildsemi.com/models>

Fairchild provides a full range of simulation resources including SPICE and IBIS models, as well as simulation tools.

Design Tools

Fairchild Power Switch Designer Software

http://www.fairchildsemi.com/design_tools/

This software currently only works with Windows 95 and Windows 98.

Contents:

- FPS Designer Software Installation Notes – Instructions and Requirements (.txt file)
- FPS Designer Software Installer (.exe file)
- FPS Designer User Guide (.pdf file)

FAN4810 PFC Controller (.xls)

http://www.fairchildsemi.com/design_tools/

This interactive tool helps designers select the power and control components needed to successfully design PFC circuits based on a FAN4810 PFC controller.

FETBench

http://www.transim.com/fairchild/fairchild_index.html

MOSFET design workbench featuring WebSIM™ and other resources for the design engineer

Synchronous buck MOSFET loss calculations with Excel Model (.pdf)

http://www.fairchildsemi.com/design_tools/

Developer Tools

ACEx™ Developer Tool Kit

http://www.fairchildsemi.com/products/micro/acex_dtk.html

Sample Code

ACEx™ sample code downloads

http://www.fairchildsemi.com/products/micro/sw/sample_code.html

Download code to assist in your designs with ACEx™

Quality System

The success of Fairchild is dependent upon the level of service that we can provide to our customers. One of the ways that we provide this high level of service is through a comprehensive quality system. Fairchild's Quality Strategy stresses four key areas:

- Designing In Quality
- Building In Quality
- Customer Service
- Continuous Improvement

This quality system bolsters Fairchild's strategic initiatives of product innovation, cost-effective manufacturing and superior customer service.

Fairchild has a strong focus on *Supplier Quality*. Quality systems and programs are in place for all Fairchild suppliers worldwide including direct raw materials, fabrication, assembly and test subcontractors. These include a comprehensive rating system, controlled supplier lists, documented qualification procedures and environmental standards specifications.

Fairchild is committed to *Development Quality*. Development processes are based on the QS9000 Advanced Product Quality Planning (APQP) methodology. APQP is a concurrent engineering process that examines the processes, products and technologies to assure the end products work optimally. These developmental processes include a phase review system wherein at each point in the process, there is an opportunity to decide whether to continue or discontinue development as appropriate. Integral to the APQP methodology is the use of Failure Mode and Effects Analysis (FMEA) to examine the various ways that product, process or equipment failures can occur and develop control plans to proactively prevent the failures.

Fairchild's *Manufacturing Quality* systems are founded on the principles of Built-In Quality. Quality is an integral part of every step in the manufacturing process, starting with the development process itself. Fairchild's Manufacturing and Engineering groups make extensive use of statistical methods such as Design of Experiments to determine optimal process parameters and Statistic Process Control (SPC) to monitor the process performance. Continuous Improvement efforts use information available from sources such as customers, process control monitors, reliability testing and final test operations to generate action plans that will push the factories ever closer to quality perfection.

Service Quality is not just an afterthought at Fairchild. It is a major part of our quality system. An integral part of Fairchild's Service Quality is the Customer Quality Engineering (CQE) group, which is a global organization of engineers dedicated to addressing all process, product or service quality issues that customers may have. CQE also acts as the customer advocate within Fairchild and is available to support customers with qualification information, surveys, questionnaires and other inquiries. Additional service support is available through a new virtual organization of customer quality champions who are trained and certified to provide direct customer support from each of Fairchild's manufacturing sites. Fairchild's service quality includes fully equipped failure analysis labs at all manufacturing locations to test customer returned samples.

The Future

All of Fairchild's manufacturing sites are in the process of enhancing their quality systems to meet the requirements of the TS-16949 standard. Quality systems based on this standard have a very strong link to the associated business processes. Another part of our future direction is an active focus on environmental quality. With the billions of parts that semiconductor manufacturers ship, it is imperative that these products do not contaminate the environment. Fairchild is contributing to this effort through compliance to industry standards such ISO-14001, conversion to lead-free plating, elimination of hazardous or restricted substances in our products and minimization of waste from our manufacturing processes.

We will continue to improve our processes, products and services to provide customers with design solutions that offer a true competitive advantage. This drive for continuous improvement is ingrained in our culture and a key to the future success of Fairchild Semiconductor and our customers.