

Silicon NPN Transistors

| Type   | Construction | P <sub>C</sub> Max. (mW) | Typical f <sub>T</sub> or *f <sub>1</sub> † fab (MHz) | Absolute Max. Ratings |                      |                      |                     | Typical h <sub>FE</sub> at (mA) (or *h <sub>FE</sub> ) | Max I <sub>CBO</sub> at V <sub>CB</sub> |    | Application               | Base Ref.       |
|--------|--------------|--------------------------|---|-----------------------|----------------------|----------------------|---------------------|--|---|----|---------------------------|-----------------|
|        |              |                          |   | V <sub>CE0</sub> (V)  | V <sub>CE0</sub> (V) | V <sub>EB0</sub> (V) | I <sub>C</sub> (mA) |  | μA                                      | V  |                           |                 |
| 2N6179 | —            | 25W                      | 50  | —                     | 50                   | —                    | 1.5A                | 145 at 500   | —                                       | —  | General purpose           | 51              |
| 2N6260 | H            | 29W                      | 0.8   | —                     | 40                   | —                    | 3A                  | 60 at 1.5A   | —                                       | —  |                           | 1               |
| 40910  | H            | 29W                      | 0.8   | —                     | 40                   | —                    | 3A                  | 60 at 1.5A   | 1                                       | 30 | Audio output              | 1               |
| 40363  | H            | 35W                      | 0.8   | —                     | 70                   | —                    | 9A                  | 45 at 4A   | —                                       | —  |                           | 1               |
| 2N3583 | —            | 35W                      | 15  | —                     | 175                  | —                    | 2A                  | 40‡ at 100   | —                                       | —  | Fast switching            | 1               |
| 2N3584 | —            | 35W                      | 15  | —                     | 250                  | —                    | 2A                  | 40‡ at 100   | —                                       | —  |                           | 1               |
| 2N3585 | —            | 35W                      | 15  | —                     | 300                  | —                    | 2A                  | 40‡ at 100   | —                                       | —  | Audio output              | 1               |
| 2N4240 | —            | 35W                      | 15  | —                     | 300                  | —                    | 2A                  | 90 at 750  | —                                       | —  |                           | 1               |
| 40313  | —            | 35W                      | 15  | —                     | 300                  | —                    | 2A                  | 145 at 100   | —                                       | —  | Audio output              | 1               |
| 40318  | —            | 35W                      | 15  | —                     | 300                  | —                    | 2A                  | 40‡ at 20  | —                                       | —  |                           | 1               |
| 40322  | —            | 35W                      | 15  | —                     | 300                  | —                    | 2A                  | 40‡ at 20  | —                                       | —  | Regulators                | 1               |
| 40328  | —            | 35W                      | 15  | —                     | 300                  | —                    | 2A                  | 40‡ at 20  | —                                       | —  |                           | 1               |
| 40374  | —            | 35W                      | 15  | —                     | 175                  | —                    | 2A                  | 40‡ at 100   | —                                       | —  | Class B pre-driver        | 1               |
| 40850  | —            | 35W                      | 15  | —                     | 300                  | —                    | 2A                  | 25‡ at 750   | —                                       | —  |                           | 1               |
| 40991  | —            | 35W                      | 15  | —                     | 175                  | —                    | 2A                  | 90 at 300  | —                                       | —  | Amplifiers                | 1               |
| 2N3878 | —            | 35W                      | 60  | —                     | 50                   | —                    | 6A                  | 125 at 500   | —                                       | —  |                           | 1               |
| 2N3879 | —            | 35W                      | 60  | —                     | 75                   | —                    | 6A                  | 50 at 4A   | —                                       | —  | High speed switching      | 1               |
| 2N5202 | —            | 35W                      | 60  | —                     | 75                   | —                    | 6A                  | 55 at 4A   | —                                       | —  |                           | 1               |
| 2N6500 | —            | 35W                      | 60  | —                     | 90                   | —                    | 6A                  | 37 at 3A   | —                                       | —  | Class AB amplifier output | 1               |
| 40364  | —            | 35W                      | 60  | —                     | 60                   | —                    | 6A                  | 105 at 500   | —                                       | —  |                           | 1               |
| 40375  | —            | 35W                      | 60  | —                     | 50                   | —                    | 6A                  | 125 at 500   | —                                       | —  | Audio amplifiers          | 1               |
| 2N5293 | H            | 36W                      | 0.8   | —                     | 70                   | —                    | 2A                  | 75 at 500  | —                                       | —  |                           | 52              |
| 2N5294 | H            | 36W                      | 0.8   | —                     | 70                   | —                    | 2A                  | 75 at 500  | —                                       | —  | General purpose           | 52              |
| 2N5295 | H            | 36W                      | 0.8   | —                     | 40                   | —                    | 2A                  | 75 at 1A   | —                                       | —  |                           | 52              |
| 2N5296 | H            | 36W                      | 0.8   | —                     | 40                   | —                    | 2A                  | 75 at 1A   | —                                       | —  | Audio output              | 52              |
| 2N5297 | H            | 36W                      | 0.8   | —                     | 60                   | —                    | 2A                  | 50 at 1.5A   | —                                       | —  |                           | 52              |
| 2N5298 | H            | 36W                      | 0.8   | —                     | 60                   | —                    | 2A                  | 50 at 1.5A   | —                                       | —  | Audio output              | 52              |
| 40613  | H            | 36W                      | 0.8   | —                     | 25                   | —                    | 2A                  | 75 at 1A   | —                                       | —  |                           | 52              |
| 40618  | H            | 36W                      | 0.8   | —                     | 30                   | —                    | 2A                  | 75 at 1A   | —                                       | —  | Audio output              | 52              |
| 40621  | H            | 36W                      | 0.8   | —                     | 32                   | —                    | 2A                  | 57 at 1.5A   | —                                       | —  |                           | 52              |
| 40622  | H            | 36W                      | 0.8   | —                     | 40                   | —                    | 2A                  | 57 at 1.5A   | —                                       | —  | Audio amplifiers          | 52              |
| 40629  | H            | 36W                      | 0.8   | —                     | 35                   | —                    | 2A                  | 45 at 1A   | —                                       | —  |                           | 52              |
| 40630  | H            | 36W                      | 0.8   | —                     | 40                   | —                    | 2A                  | 45 at 1.5A   | —                                       | —  | Audio amplifiers          | 52              |
| 40631  | H            | 36W                      | 0.8   | —                     | 45                   | —                    | 2A                  | 45 at 2A   | —                                       | —  |                           | 52              |
| BD239  | PE           | 40W                      | 4   | —                     | 45                   | —                    | 6A                  | 45 at 1A   | —                                       | —  | Audio amplifiers          | 52              |
| BD239A | PE           | 40W                      | 4   | —                     | 60                   | —                    | 6A                  | 45 at 1A   | —                                       | —  |                           | 52              |
| BD239B | PE           | 40W                      | 4   | —                     | 80                   | —                    | 6A                  | 45 at 1A   | —                                       | —  | Audio amplifiers          | 52              |
| BD239C | PE           | 40W                      | 4   | —                     | 100                  | —                    | 6A                  | 45 at 1A   | —                                       | —  |                           | 52              |
| BD241  | PE           | 40W                      | 4   | —                     | 45                   | —                    | 6A                  | 30 at 3A   | —                                       | —  | Audio amplifiers          | 52              |
| BD241A | PE           | 40W                      | 4   | —                     | 60                   | —                    | 6A                  | 30 at 3A   | —                                       | —  |                           | 52              |
| BD241B | PE           | 40W                      | 4   | —                     | 80                   | —                    | 6A                  | 30 at 3A   | —                                       | —  | Audio amplifiers          | 52              |
| BD241C | PE           | 40W                      | 4   | —                     | 100                  | —                    | 6A                  | 30 at 3A   | —                                       | —  |                           | 52              |
| BD243  | PE           | 40W                      | 4   | —                     | 45                   | —                    | 6A                  | 45 at 3A   | —                                       | —  | Audio amplifiers          | 52              |
| BD243A | PE           | 40W                      | 4   | —                     | 60                   | —                    | 6A                  | 45 at 3A   | —                                       | —  |                           | 52              |
| BD243B | PE           | 40W                      | 4   | —                     | 80                   | —                    | 6A                  | 45 at 3A   | —                                       | —  | Audio amplifiers          | 52              |
| BD243C | PE           | 40W                      | 4   | —                     | 100                  | —                    | 6A                  | 45 at 3A   | —                                       | —  |                           | 52              |
| 2N6288 | PE           | 40W                      | 4   | —                     | 30                   | —                    | 6A                  | 90 at 3A   | —                                       | —  | Audio driver              | 52              |
| 2N6289 | PE           | 40W                      | 4   | —                     | 30                   | —                    | 6A                  | 90 at 3A   | —                                       | —  |                           | 52              |
| 2N6290 | PE           | 40W                      | 4   | —                     | 50                   | —                    | 6A                  | 90 at 2.5A   | —                                       | —  | General purpose           | 52              |
| 2N6291 | PE           | 40W                      | 4   | —                     | 50                   | —                    | 6A                  | 90 at 2.5A   | —                                       | —  |                           | 52              |
| 2N6292 | PE           | 40W                      | 4   | —                     | 70                   | —                    | 6A                  | 90 at 2A   | —                                       | —  | General purpose           | 52              |
| 2N6372 | PE           | 40W                      | 4   | —                     | 80                   | —                    | 5.5A                | 60 at 2A   | —                                       | —  |                           | 1               |
| 2N6273 | PE           | 40W                      | 4   | —                     | 60                   | —                    | 5.5A                | 60 at 2.5A   | —                                       | —  | General purpose           | 52              |
| 2N6374 | PE           | 40W                      | 4   | —                     | 40                   | —                    | 5.5A                | 60 at 3A   | —                                       | —  |                           | 52              |
| 40871  | PE           | 40W                      | 4   | —                     | 100                  | —                    | 6A                  | 150 at 1A  | —                                       | —  | Audio driver              | 52              |
| 40873  | PE           | 40W                      | 4   | —                     | 70                   | —                    | 6A                  | 90 at 2A   | —                                       | —  |                           | General purpose |
| 40875  | PE           | 40W                      | 4   | —                     | 50                   | —                    | 6A                  | 70 at 3A   | —                                       | —  | Audio output              |                 |
| 40979  | PE           | 40W                      | 4   | —                     | 40                   | —                    | 6A                  | 150 at 1.5A  | —                                       | —  |                           | 52              |
| 2N6077 | —            | 45W                      | 1   | —                     | 250                  | —                    | 3A                  | 41 at 1.2A   | —                                       | —  | Fast switching            | 1               |
| 2N6078 | —            | 45W                      | 1   | —                     | 275                  | —                    | 3A                  | 41 at 1.2A   | —                                       | —  |                           | 1               |
| 2N6079 | —            | 45W                      | 1   | —                     | 350                  | —                    | 3A                  | 31 at 1.2A   | —                                       | —  | 1                         |                 |

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