

# POWER SILICON NPN

| Item Number                      | Part Number | Manufacturer | I <sub>C</sub> Max (A) | V <sub>(BR)CEO</sub> (V) | h <sub>FE</sub> |     | f <sub>T</sub> (Hz) | I <sub>CBO</sub> Max (A) | t <sub>r</sub> Max (s) | t <sub>f</sub> Max (s) | P <sub>D</sub> Max (W) | T <sub>Oper</sub> Max (°C) | Package Style |
|----------------------------------|-------------|--------------|------------------------|--------------------------|-----------------|-----|---------------------|--------------------------|------------------------|------------------------|------------------------|----------------------------|---------------|
|                                  |             |              |                        |                          | Min             | Max |                     |                          |                        |                        |                        |                            |               |
| <b>I(C) &gt;= 20 A, (Cont'd)</b> |             |              |                        |                          |                 |     |                     |                          |                        |                        |                        |                            |               |
| -                                | SdT8070     | Solitron     | 20                     | 60                       | 100             |     | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SdT8070     | Sld St Dvcs  | 20                     | 60                       | 100             |     | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SdT8070     | PPC Product  | 20                     | 60                       | 100             |     | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SdT8155     | Sld St Dvcs  | 20                     | 60                       | 100             |     | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| 5                                | SdT8155     | Solitron     | 20                     | 60                       | 100             |     | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| -                                | SdT8155     | PPC Product  | 20                     | 60                       | 100             |     | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| -                                | KT827B      | V/O Electro  | 20                     | 60                       | 750             | 18k |                     | 1m                       | 4.5u                   |                        | 125                    | 175 J                      | TO-3var       |
| -                                | 2SD132      | NEC Corp JA  | 20                     | 65                       | 20              | 100 |                     | 5.0m                     |                        |                        | 150                    | 175 J                      | TO-3var       |
| -                                | 163-07      | Powerex Inc  | 20                     | 70                       | 15              |     | 500k                | 30m                      | 6.0u                   | 7.0u                   | 200                    | 175 J                      | SIR-5/16      |
| 10                               | 164-07      | Powerex Inc  | 20                     | 70                       | 25              |     | 500k                | 30m                      | 6.0u                   | 7.0u                   | 200                    | 175 J                      | SIR-5/16      |
| -                                | 2N3237      | See Index    | 20                     | 75                       | 12              | 36  | 1.0M                | 5.0m                     |                        |                        | 200                    | 175 C                      | TO-3          |
| -                                | SDT7531     | Solitron     | 20                     | 75                       | 20              |     | 20M                 |                          |                        |                        | 140                    |                            | TO-3          |
| -                                | 2N5039      | See Index    | 20                     | 75                       | 20              | 100 | 60M                 | 50m                      | 500n                   | 500n                   | 140                    | 175 J                      | TO-3          |
| -                                | 2N5537      | See Index    | 20                     | 75                       | 30              | 150 |                     | 1.0m                     |                        |                        | 50                     | 175 J                      | TO-61         |
| 15                               | 2N5538      | See Index    | 20                     | 75                       | 30              | 150 |                     | 1.0m                     |                        |                        | 50                     | 175 J                      | TO-61         |
| -                                | S2N5539-8   | Solitron     | 20                     | 80                       |                 |     |                     |                          |                        |                        | 50                     |                            | TO-61         |
| -                                | SML8003     | Semelab      | 20                     | 80                       |                 |     | 20M                 |                          |                        |                        | 100                    | 140 J                      | TO-63         |
| -                                | SML8013     | Semelab      | 20                     | 80                       |                 |     | 25M                 |                          |                        |                        | 100                    | 140 J                      | TO-63         |
| -                                | SML8016     | Semelab      | 20                     | 80                       |                 |     | 25M                 |                          |                        |                        | 100                    | 140 J                      | TO-63         |
| 20                               | SML8071     | Semelab      | 20                     | 80                       |                 |     | 25M                 |                          |                        |                        | 100                    | 140 J                      | TO-63         |
| -                                | 2N2815      | See Index    | 20                     | 80                       | 10              | 50  |                     |                          |                        |                        | 200                    | 175 J                      | SIR-5/16      |
| -                                | 2N1937      | See Index    | 20                     | 80                       | 10              | 50  | 4.0M                | 10m                      |                        |                        | 150                    | 175 J                      | TO-63         |
| -                                | SPC163-08   | Solid Power  | 20                     | 80                       | 15              |     |                     | 30m                      |                        |                        | 200                    | 140 J                      | TO-63         |
| -                                | 163-08A     | Pwr TechnInc | 20                     | 80                       | 15              |     |                     | 30m                      | 6.0u                   | 12u                    | 200                    | 175 J                      | SIR-5/16      |
| 25                               | 163-08SPC   | Solid Power  | 20                     | 80                       | 15              |     |                     | 30m                      | 6.0u                   | 12u                    | 200                    | 175 J                      | SIR-5/16      |
| -                                | 163-08      | SemiconTech  | 20                     | 80                       | 15              |     | 500k                | 30m                      | 6.0u                   | 7.0u                   | 200                    | 175 J                      | SIR-5/16      |
| -                                | 163-08      | Powerex Inc  | 20                     | 80                       | 15              |     | 500k                | 30m                      | 6.0u                   | 7.0u                   | 200                    | 175 J                      | SIR-5/16      |
| -                                | 2N5303      | See Index    | 20                     | 80                       | 15              | 60  | 2.0M                | 1.0m                     | 1.0u                   | 1.0u                   | 200                    | 175 J                      | TO-3          |
| -                                | BD745B      | Semelab      | 20                     | 80                       | 20              | 150 |                     | 100u                     | 350n                   | 400n                   | 3.5                    | 140 J                      | TO-3          |
| 30                               | BD745B      | TexinstLtd   | 20                     | 80                       | 20              | 150 |                     | 100u                     | 350n                   | 400n                   | 3.5                    | 140 J                      | TO-3          |
| -                                | BD745B      | NthAmerSemi  | 20                     | 80                       | 20              | 150 |                     | 100u                     | 350n                   | 400n                   | 3.5                    | 140 J                      | TO-3          |
| -                                | KT935A      | V/O Electro  | 20                     | 80                       | 20              | 100 |                     |                          |                        |                        | 60                     | 140 J                      | N/A           |
| -                                | STC1726     | Pwr TechnInc | 20                     | 80                       | 20              | 80  |                     | 2.0m                     |                        |                        | 200                    | 175 J                      | SIR-5/16      |
| -                                | 2N4211      | See Index    | 20                     | 80                       | 20              | 100 | 10M                 | 500u                     |                        |                        | 100                    | 175 J                      | TO-63         |
| 35                               | SDT8013     | Sld St Dvcs  | 20                     | 80                       | 20              | 60  | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8013     | Solitron     | 20                     | 80                       | 20              | 60  | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8013     | PPC Product  | 20                     | 80                       | 20              | 60  | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8157     | PPC Product  | 20                     | 80                       | 20              | 60  | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| -                                | SDT8157     | Sld St Dvcs  | 20                     | 80                       | 20              | 60  | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| 40                               | SDT8157     | Solitron     | 20                     | 80                       | 20              | 60  | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| -                                | 1723-0805   | Sld St Dvcs  | 20                     | 80                       | 20              |     | 30M                 |                          | 250n                   | 250n                   | 85                     | 175 J                      | TO-3          |
| -                                | 1723-0810   | SiliconTran  | 20                     | 80                       | 20              |     | 30M                 |                          | 300n                   | 300n                   | 85                     | 175 J                      | TO-3          |
| -                                | 1723-0810   | Sld St Dvcs  | 20                     | 80                       | 20              |     | 30M                 |                          | 300n                   | 300n                   | 85                     | 175 J                      | TO-3          |
| 45                               | 1748-0820   | Sld St Dvcs  | 20                     | 80                       | 20              | 100 | 30M                 |                          | 600n                   | 350n                   | 200                    | 175 J                      | TO-63         |
| -                                | 1748-1220   | Sld St Dvcs  | 20                     | 80                       | 20              | 100 | 30M                 |                          | 600n                   | 350n                   | 200                    | 175 J                      | TO-63         |
| -                                | 1748-1620   | Sld St Dvcs  | 20                     | 80                       | 20              | 100 | 30M                 |                          | 600n                   | 350n                   | 200                    | 175 J                      | TO-63         |
| -                                | 1748-1820   | Sld St Dvcs  | 20                     | 80                       | 20              | 100 | 30M                 |                          | 600n                   | 350n                   | 200                    | 175 J                      | TO-63         |
| -                                | KSP1252     | PPC Product  | 20                     | 80                       | 20              | 60  | 35M                 | 1.0u                     |                        |                        |                        |                            | TO-63         |
| -                                | SPC164-08   | Solid Power  | 20                     | 80                       | 25              |     |                     | 30m                      |                        |                        | 200                    | 140 J                      | TO-63         |
| 50                               | 164-08A     | Pwr TechnInc | 20                     | 80                       | 25              |     |                     | 30m                      | 6.0u                   | 12u                    | 200                    | 175 J                      | SIR-5/16      |
| -                                | 164-08SPC   | Solid Power  | 20                     | 80                       | 25              |     |                     | 30m                      | 6.0u                   | 12u                    | 200                    | 175 J                      | SIR-5/16      |
| -                                | 164-08      | SemiconTech  | 20                     | 80                       | 25              |     | 500k                | 30m                      | 6.0u                   | 7.0u                   | 200                    | 175 J                      | SIR-5/16      |
| -                                | 164-08      | Powerex Inc  | 20                     | 80                       | 25              |     | 500k                | 30m                      | 6.0u                   | 7.0u                   | 200                    | 175 J                      | SIR-5/16      |
| -                                | BLX86       | Solitron     | 20                     | 80                       | 30              | 150 | 10M                 |                          |                        |                        | 175                    | 175 J                      | TO-3          |
| 55                               | BLX86       | NthAmerSemi  | 20                     | 80                       | 30              | 150 | 10M                 |                          |                        |                        | 175                    | 175 J                      | TO-3          |
| -                                | ST28140     | SemiconTech  | 20                     | 80                       | 30              | 150 | 10M                 | 500u                     |                        |                        | 150                    | 175                        | TO-3          |
| -                                | SDT3203     | See Index    | 20                     | 80                       | 30              | 90  | 30M                 | 10u                      | 500n                   | 500n                   | 87                     | 175 J                      | TO-61         |
| -                                | 2N4004      | See Index    | 20                     | 80                       | 30              | 150 | 30M                 | 2.0m                     | 1.0n                   | 4.0u                   | 1.2                    | 175 J                      | Macro-T       |
| -                                | 2N5731      | See Index    | 20                     | 80                       | 30              | 300 | 30M                 | 1.0m                     | 300n                   | 600n                   | 75                     | 175 J                      | TO-61         |
| 60                               | 2N5732      | See Index    | 20                     | 80                       | 30              | 300 | 30M                 | 1.0m                     | 300n                   | 600n                   | 75                     | 175 J                      | TO-3          |
| -                                | SDT44333    | PPC Product  | 20                     | 80                       | 30              |     | 60M                 | 10u                      | 300n                   |                        | 122                    | 175 J                      | TO-3          |
| -                                | SDT44333    | Solitron     | 20                     | 80                       | 30              |     | 60M                 | 10u                      | 300n                   |                        | 122                    | 175 J                      | TO-3          |
| -                                | SDT8003     | PPC Product  | 20                     | 80                       | 40              | 120 | 20M                 | 100u                     |                        |                        | 175                    | 175 J                      | TO-63         |
| 65                               | SDT8003     | Solitron     | 20                     | 80                       | 40              | 120 | 20M                 | 100u                     |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8003     | Sld St Dvcs  | 20                     | 80                       | 40              | 120 | 20M                 | 100u                     |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8016     | Sld St Dvcs  | 20                     | 80                       | 40              | 120 | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8016     | Solitron     | 20                     | 80                       | 40              | 120 | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8016     | PPC Product  | 20                     | 80                       | 40              | 120 | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8152     | PPC Product  | 20                     | 80                       | 40              | 120 | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| 70                               | SDT8152     | Sld St Dvcs  | 20                     | 80                       | 40              | 120 | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| -                                | SDT8152     | Solitron     | 20                     | 80                       | 40              | 120 | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| -                                | KSP1255     | PPC Product  | 20                     | 80                       | 40              | 120 | 35M                 | 1.0u                     |                        |                        |                        |                            | TO-63         |
| -                                | 2N3599      | See Index    | 20                     | 80                       | 75              | 225 | 30M                 | 100n                     | 700n                   | 2.7u                   | 100                    | 175 C                      | TO-63         |
| -                                | SDT8071     | Solitron     | 20                     | 80                       | 100             |     | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| 75                               | SDT8071     | Sld St Dvcs  | 20                     | 80                       | 100             |     | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8071     | PPC Product  | 20                     | 80                       | 100             |     | 25M                 | 10u                      |                        |                        | 175                    | 175 J                      | TO-63         |
| -                                | SDT8154     | Sld St Dvcs  | 20                     | 80                       | 100             |     | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| -                                | SDT8154     | Solitron     | 20                     | 80                       | 100             |     | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| -                                | SDT8154     | PPC Product  | 20                     | 80                       | 100             |     | 30M                 | 100u                     |                        |                        | 175                    |                            | TO-61         |
| 80                               | KT827V      | V/O Electro  | 20                     | 80                       | 750             | 18k |                     | 1m                       | 4.5u                   |                        | 125                    | 175 J                      | TO-3var       |
| -                                | SM3174      | Semelab      | 20                     | 80                       | 1k              |     | 10M                 |                          |                        |                        | 60                     |                            | SOT-93        |
| -                                | 163-09      | Powerex Inc  | 20                     | 90                       | 15              |     | 500k                | 30m                      | 6.0u                   | 7.0u                   | 200                    | 175 J                      | SIR-5/16      |
| -                                | SDT7530     | Solitron     | 20                     | 90                       | 20              |     | 20M                 |                          |                        |                        | 140                    |                            | TO-3          |
| -                                | 2N5038      | See Index    | 20                     | 90                       | 20              | 100 | 60M                 | 50m                      | 500n                   | 500n                   | 140                    | 175 J                      | TO-3          |
| 85                               | 164-09      | Powerex Inc  | 20                     | 90                       | 25              |     | 500k                | 30m                      | 6.0u                   | 7.0u                   | 200                    | 175 J                      | SIR-5/16      |
| -                                | 2N5329      | See Index    | 20                     | 90                       | 40              | 120 | 80M                 | 350n                     | 1.1u                   |                        | 65                     | 175 J                      | TO-61         |
| -                                | SK3561      | GE Solid St  | 20                     | 90                       | 75              |     | 60M                 |                          |                        |                        | 140                    |                            | TO-3          |
| -                                | BDW10       | SldStElecII  | 20                     | 100                      |                 |     | 800k                |                          |                        |                        | 180                    |                            | TO-3          |
| -                                | BDW10A      | SldStElecII  | 20                     | 100                      |                 |     | 800k                |                          |                        |                        | 180                    |                            | TO-3          |
| 90                               | SML8751     | Semelab      | 20                     | 100                      |                 |     | 20M                 |                          |                        |                        | 100                    |                            | TO-63         |
| -                                | SML8755     | Semelab      | 20                     | 100                      |                 |     | 20M                 |                          |                        |                        | 100                    |                            | TO-63         |
| -                                | 2N1824      | Space Power  | 20                     | 100                      | 10              |     | 30m                 | 20u                      | 25u                    | 25u                    | 250                    | 175 J                      | SIF-1/2       |
| -                                | 2N1824      | AmerMicroSC  | 20                     | 100                      | 10              |     | 30m                 | 20u                      | 25u                    | 25u                    | 250                    | 175 J                      | SIF-1/2       |
| -                                | 2N1824      | Hi-Tron      | 20                     | 100                      | 10              |     | 30m                 | 20u                      | 25u                    | 25u                    | 250                    | 175 J                      | SIF-1/2       |
| -                                | 2N2124      | See Index    | 20                     | 100                      | 10              |     | 30                  | 20u                      | 25u                    |                        | 250                    | 175 J                      | SIR-1/2       |
| -                                | 2N2740      | See Index    | 20                     | 100                      | 10              |     | 15m                 | 6000n                    |                        |                        | 200                    | 175 C                      | TO-81         |
| -                                | 2N2746      | See Index    | 20                     | 100                      | 10              |     | 15m                 | 6000n                    |                        |                        | 200                    | 175 C                      | TO-81         |