

| DEVICE TYPE NO. | POLARITY | $P_D @ T_c=25^\circ\text{C}$ | | MAXIMUM RATINGS | | | | ELECTRICAL CHARACTERISTICS | | | CASE |
|-----------------------|----------|------------------------------|---------------|-----------------|-----------|------------|------------------|----------------------------|----------|--------------------|-------|
| | | WATTS | I_c AMPS | BV_{CBO} | BV_{CE} | BV_{EBO} | h_{FE} MIN. | I_c AMPS | V_{CE} | f MHZ *KHZ | |
| MJE13006 | NPN | 80.0 | 8.00 | 600 | 300 | 9 | 5 | 5.00 | 5 | 4 | TO220 |
| MJE13007 | NPN | 80.0 | 8.00 | 700 | 400 | 9 | 5 | 5.00 | 5 | 4 | TO220 |
| SE5020 | NPN | .175 | .02 | 20 | 20 | 3 | 20 | .004 | 5 | 375 | TO72 |
| SE5021 | NPN | .175 | .02 | 20 | 20 | 3 | 20 | .004 | 5 | 375 | TO72 |
| SE5022 | NPN | .175 | .02 | 20 | 20 | 3 | 20 | .004 | 5 | 300 | TO72 |
| SE5023 | NPN | .175 | .02 | 20 | 20 | 3 | 20 | .004 | 5 | 300 | TO72 |
| SE5024 | NPN | .175 | .02 | 20 | 20 | 3 | 20 | .004 | 5 | 300 | TO72 |
| SE5050 | NPN | .175 | .02 | 20 | 20 | 3 | 20 | .004 | 5 | 300 | TO72 |
| SE5051 | NPN | .175 | .02 | 20 | 20 | 3 | 20 | .004 | 5 | 300 | TO72 |
| SE5052 | NPN | .175 | .02 | 20 | 20 | 3 | 3.75 | .004 | 10 | 500 | TO72 |
| SE6001 | NPN | .300 | .20 | 40 | 30 | 5 | 50 | .010 | 10 | 40 | TO105 |
| SE6002 | NPN | .300 | .20 | 40 | 30 | 5 | 150 | .010 | 10 | 40 | TO105 |
| SE7055 | NPN | 1.00 | .20 | 220 | 220 | 7 | 40 | .030 | 20 | 50 | TO39 |
| SE7056 | NPN | 1.00 | .20 | 300 | 300 | 7 | 40 | .030 | 20 | 50 | TO39 |
| SE9300 | NPN | 70.0 | 10.0 | 60 | 60 | 5 | 100 | 7.50 | 3 | 1 | TO220 |
| SE9301 | NPN | 70.0 | 10.0 | 80 | 80 | 5 | 100 | 7.50 | 3 | 1 | TO220 |
| SE9302 | NPN | 70.0 | 10.0 | 100 | 100 | 5 | 100 | 7.50 | 3 | 1 | TO220 |
| SE9400 | PNP | 70.0 | 10.0 | 60 | 60 | 5 | 100 | 7.50 | 3 | 1 | TO220 |
| SE9401 | PNP | 70.0 | 10.0 | 80 | 80 | 5 | 100 | 7.50 | 3 | 1 | TO220 |
| SE9402 | PNP | 70.0 | 10.0 | 100 | 100 | 5 | 100 | 7.50 | 3 | 1 | TO220 |
| TIP29 | NPN | 30.0 | 1.00 | 40 | 40 | 5 | 15 | 1.00 | 4 | 3 | TO220 |
| TIP29A | NPN | 30.0 | 1.00 | 60 | 60 | 5 | 15 | 1.00 | 4 | 3 | TO220 |
| TIP29B | NPN | 30.0 | 1.00 | 80 | 80 | 5 | 15 | 1.00 | 4 | 3 | TO220 |
| TIP29C | NPN | 30.0 | 1.00 | 100 | 100 | 5 | 15 | 1.00 | 4 | 3 | TO220 |
| TIP30 | PNP | 30.0 | 1.00 | 40 | 40 | 5 | 15 | 1.00 | 4 | 3 | TO220 |
| TIP30A | PNP | 30.0 | 1.00 | 60 | 50 | 5 | 15 | 1.00 | 4 | 3 | TO220 |
| TIP30B | PNP | 30.0 | 1.00 | 80 | 80 | 5 | 15 | 1.00 | 4 | 3 | TO220 |
| TIP30C | PNP | 30.0 | 1.00 | 100 | 100 | 5 | 15 | 1.00 | 4 | 3 | TO220 |
| TIP31 | NPN | 40.0 | 3.00 | 40 | 40 | 5 | 10 | 3.00 | 4 | 3 | TO220 |
| TIP31A | NPN | 40.0 | 3.00 | 60 | 60 | 5 | 10 | 3.00 | 4 | 3 | TO220 |
| TIP31B | NPN | 40.0 | 3.00 | 80 | 80 | 5 | 10 | 3.00 | 4 | 3 | TO220 |
| TIP31C | NPN | 40.0 | 3.00 | 100 | 100 | 5 | 10 | 3.00 | 4 | 3 | TO220 |
| TIP32 | PNP | 40.0 | 3.00 | 40 | 40 | 5 | 10 | 3.00 | 4 | 3 | TO220 |
| TIP32A | PNP | 40.0 | 3.00 | 60 | 60 | 5 | 10 | 3.00 | 4 | 3 | TO220 |
| TIP32B | PNP | 40.0 | 3.00 | 80 | 80 | 5 | 10 | 3.00 | 4 | 3 | TO220 |
| TIP32C | PNP | 40.0 | 3.00 | 100 | 100 | 5 | 10 | 3.00 | 4 | 3 | TO220 |
| TIP41 | NPN | 65.0 | 7.00 | 40 | 40 | 5 | 15 | 3.00 | 4 | 3 | TO220 |
| TIP41A | NPN | 65.0 | 7.00 | 60 | 60 | 5 | 15 | 3.00 | 4 | 3 | TO220 |
| TIP41B | NPN | 65.0 | 7.00 | 80 | 80 | 5 | 15 | 3.00 | 4 | 3 | TO220 |
| TIP41C | NPN | 65.0 | 7.00 | 100 | 100 | 5 | 15 | 3.00 | 4 | 3 | TO220 |
| TIP42 | PNP | 65.0 | 7.00 | 40 | 40 | 5 | 15 | 3.00 | 4 | 3 | TO220 |
| TIP42A | PNP | 65.0 | 7.00 | 60 | 60 | 5 | 15 | 3.00 | 4 | 3 | TO220 |
| TIP42B | PNP | 65.0 | 7.00 | 80 | 80 | 5 | 15 | 3.00 | 4 | 3 | TO220 |
| TIP42C | PNP | 65.0 | 7.00 | 100 | 100 | 5 | 15 | 3.00 | 4 | 3 | TO220 |
| TIP100 | NPN | 80.0 | 8.00 | 60 | 60 | 5 | 200 | 8.00 | 4 | 4 | TO220 |
| TIP101 | NPN | 80.0 | 8.00 | 80 | 80 | 5 | 200 | 8.00 | 4 | 4 | TO220 |
| TIP102 | NPN | 80.0 | 8.00 | 100 | 100 | 5 | 200 | 8.00 | 4 | 4 | TO220 |
| TIP105 | PNP | 80.0 | 8.00 | 60 | 60 | 5 | 200 | 8.00 | 4 | 4 | TO220 |
| TIP106 | PNP | 80.0 | 8.00 | 80 | 80 | 5 | 200 | 8.00 | 4 | 4 | TO220 |
| TIP107 | PNP | 80.0 | 8.00 | 100 | 100 | 5 | 200 | 8.00 | 4 | 4 | TO220 |
| TIP110 | NPN | 50.0 | 2.00 | 60 | 60 | 5 | 1000 | 1.00 | 4 | 25 | TO220 |
| TIP111 | NPN | 50.0 | 2.00 | 80 | 80 | 5 | 1000 | 1.00 | 4 | 25 | TO220 |
| TIP112 | NPN | 50.0 | 2.00 | 100 | 100 | 5 | 1000 | 1.00 | 4 | 25 | TO220 |
| TIP115 | PNP | 50.0 | 2.00 | 60 | 60 | 5 | 1000 | 1.00 | 4 | 25 | TO220 |
| TIP116 | PNP | 50.0 | 2.00 | 80 | 80 | 5 | 1000 | 1.00 | 4 | 25 | TO220 |
| TIP117 | PNP | 50.0 | 2.00 | 100 | 100 | 5 | 1000 | 1.00 | 4 | 25 | TO220 |
| TIP120 | NPN | 65.0 | 8.00 | 60 | 60 | 5 | 1000 | 3.00 | 3 | 20 | TO220 |
| TIP121 | NPN | 65.0 | 8.00 | 80 | 80 | 5 | 1000 | 3.00 | 3 | 20 | TO220 |
| TIP122 | NPN | 65.0 | 8.00 | 100 | 100 | 5 | 1000 | 3.00 | 3 | 20 | TO220 |
| TIP125 | PNP | 65.0 | 8.00 | 60 | 60 | 5 | 1000 | 3.00 | 3 | 20 | TO220 |
| TIP126 | PNP | 65.0 | 8.00 | 80 | 80 | 5 | 1000 | 3.00 | 3 | 20 | TO220 |
| TIP127 | PNP | 65.0 | 8.00 | 100 | 100 | 5 | 1000 | 3.00 | 3 | 20 | TO220 |
| TIP130 | NPN | 70.0 | 8.00 | 60 | 60 | 5 | 200 | 6.00 | 3 | 4 | TO220 |
| TIP131 | NPN | 70.0 | 8.00 | 80 | 80 | 5 | 200 | 6.00 | 3 | 4 | TO220 |
| TIP132 | NPN | 70.0 | 8.00 | 100 | 100 | 5 | 200 | 6.00 | 3 | 4 | TO220 |
| TIP135 | PNP | 70.0 | 8.00 | 60 | 60 | 5 | 200 | 6.00 | 3 | 4 | TO220 |
| TIP136 | PNP | 70.0 | 8.00 | 80 | 80 | 5 | 200 | 6.00 | 3 | 4 | TO220 |
| TIP137 | PNP | 70.0 | 8.00 | 110 | 100 | 5 | 200 | 6.00 | 3 | 4 | TO220 |
| TIP530 | NPN | 40.0 | 3.00 | 400 | 300 | 6 | 25 | 1.50 | 4 | 20 | TO66 |