

Small Signal Transistors

TO-39 Case (Continued)



| TYPE NO. | DESCRIPTION | V _{CBO} | V _{CEO} | V _{EBO} | I _{CBO} | @ V _{CB} | h _{FE} | | @ I _C | @ V _{CE} | V _{CE(SAT)} | @ I _C | f _T | C _{ob} | t _{on} | t _{off} | NF |
|----------|------------------|------------------|--------------------------|------------------|--|-------------------|-----------------|-----|------------------|-------------------|----------------------|------------------|----------------|-----------------|-----------------|------------------|--------------|
| | | (V) | (V) *V _{CER} | (V) | (μA) *I _{CEO} **I _{CES} ***I _{CEV} ****I _{CER} | (V) | MIN | MAX | (mA) | (V) | (V) | (mA) | (MHz) *TYP | (pF) *TYP | (ns) *TYP | (ns) *TYP | (dB) *TYP |
| 2N1975 | NPN AMPL/SWITCH | 100 | 60 | 7.0 | 0.025 | 75 | 15 | -- | 10 | 10 | 1.20 | 50 | 40 | 15 | -- | -- | -- |
| 2N1983 | NPN AMPL/SWITCH | 50 | 25 | 5.0 | 5.00 | 30 | 70 | 240 | 5.0 | 5.0 | 0.25 | 5.0 | 40 | 45 | -- | -- | -- |
| 2N1984 | NPN AMPL/SWITCH | 50 | 25 | 5.0 | 5.00 | 30 | 35 | 120 | 5.0 | 5.0 | 0.25 | 5.0 | 40 | 45 | -- | -- | -- |
| 2N1985 | NPN AMPL/SWITCH | 50 | 25 | 5.0 | 5.00 | 30 | 15 | 80 | 5.0 | 5.0 | 0.25 | 5.0 | 40 | 45 | -- | -- | -- |
| 2N1986 | NPN AMPL/SWITCH | 50 | 25 | 5.0 | 5.00 | 30 | 60 | 240 | 150 | 10 | 1.50 | 150 | 40 | 35 | -- | -- | -- |
| 2N1987 | NPN AMPL/SWITCH | 50 | 25 | 5.0 | 5.00 | 30 | 20 | 80 | 150 | 10 | 1.50 | 150 | 40 | 35 | -- | -- | -- |
| 2N1988 | NPN AMPL/SWITCH | 100 | 45 | 5.0 | 5.00 | 50 | 35 | 120 | 30 | 10 | 2.00 | 30 | 40 | 20 | -- | -- | -- |
| 2N1989 | NPN AMPL/SWITCH | 100 | 45 | 5.0 | 5.00 | 50 | 20 | 60 | 30 | 10 | 2.00 | 30 | 40 | 20 | -- | -- | -- |
| 2N1990 | NPN AMPL/SWITCH | 100 | 60 | 3.0 | 10 | 75 | 20 | -- | 30 | 10 | 0.50 | 2.0 | 40 | 20 | -- | -- | -- |
| 2N2017 | NPN AMPL/SWITCH | 60 | 60 | 6.0 | 10 | 30 | 50 | 200 | 200 | 10 | 2.00 | 200 | -- | -- | -- | -- | -- |
| 2N2049 | NPN AMPL/SWITCH | 75 | 40 | 7.0 | 0.10 | 60 | 100 | 300 | 150 | 10 | 0.40 | 10 | 50 | 25 | -- | -- | -- |
| 2N2102A | NPN AMPL/SWITCH | 120 | 65 | 7.0 | 0.002 | 60 | 40 | 120 | 150 | 10 | 0.30 | 150 | 60 | 15 | -- | -- | -- |
| 2N2107 | NPN AMPL/SWITCH | 60 | 60 | 6.0 | 10 | 30 | 30 | 90 | 200 | 10 | 2.00 | 200 | -- | -- | -- | -- | -- |
| 2N2175 | PNP AMPL/SWITCH | 6.0 | 6.0 | 6.0 | 1.00 | 6.0 | 30 | -- | 0.02 | 1.5 | -- | -- | 3.0 | -- | -- | -- | -- |
| 2N2177 | PNP AMPL/SWITCH | 6.0 | 6.0 | 6.0 | 0.50 | 6.0 | 35 | -- | 0.05 | 4.5 | -- | -- | 8.0 | -- | -- | -- | -- |
| 2N2192B | NPN AMPL/SWITCH | 60 | 40 | 5.0 | 0.10 | 30 | 100 | 300 | 150 | 10 | 0.18 | 150 | 50 | 20 | -- | -- | -- |
| 2N2193B | NPN AMPL/SWITCH | 80 | 50 | 6.0 | 0.10 | 60 | 40 | 120 | 150 | 10 | 0.18 | 150 | 50 | 20 | -- | -- | -- |
| 2N2195B | NPN AMPL/SWITCH | 45 | 25 | 5.0 | 0.10 | 30 | 20 | -- | 150 | 10 | 0.18 | 150 | 50 | 20 | -- | -- | -- |
| 2N2218A | NPN AMPL/SWITCH | 75 | 40 | 6.0 | 0.10 | 60 | 40 | 120 | 150 | 10 | 0.30 | 150 | 250 | 8.0 | -- | -- | -- |
| 2N2219A | NPN AMPL/SWITCH | 75 | 40 | 6.0 | 0.10 | 60 | 100 | 300 | 150 | 10 | 0.30 | 150 | 250 | 8.0 | -- | -- | -- |
| 2N2237 | NPN AMPL/SWITCH | 40 | 20 | 6.0 | -- | -- | 40 | 125 | 100 | 10 | 0.25 | 100 | 50 | 35 | -- | -- | -- |
| 2N2243A | NPN AMPL/SWITCH | 120 | 80 | 7.0 | 10 | 60 | 40 | 120 | 150 | 10 | 0.25 | 150 | 50 | 15 | -- | -- | -- |
| 2N2270 | NPN AMPL/SWITCH | 60 | 45 | 7.0 | 0.05 | 60 | 50 | 200 | 150 | 10 | 0.90 | 150 | 100 | 15 | -- | -- | 10 |
| 2N2297 | NPN AMPL/SWITCH | 80 | 35 | 7.0 | 0.10 | 60 | 40 | 120 | 150 | 10 | 0.20 | 150 | 60 | 12 | -- | -- | -- |
| 2N2303 | PNP AMPL/SWITCH | 50 | 35 | 5.0 | 1.00 | 30 | 75 | 200 | 150 | 10 | 1.50 | 150 | 60 | 45 | -- | -- | -- |
| 2N2309 | NPN AMPL/SWITCH | 30 | 30 | 5.0 | -- | -- | 25 | 125 | 0.2 | 5.0 | -- | -- | 40 | 25 | -- | -- | -- |
| 2N2380A | NPN AMPL/SWITCH | 80 | 40 | 5.0 | -- | -- | 20 | 120 | 150 | 10 | 1.30 | 150 | 100 | 14 | -- | -- | -- |
| 2N2405 | NPN AMPL/SWITCH | 120 | 90 | 7.0 | 0.10 | 90 | 60 | 200 | 150 | 10 | 0.50 | 150 | 50 | 15 | -- | -- | -- |
| 2N2410 | NPN CORE DRIVER | 60 | 30 | 5.0 | 0.30 | 30 | 30 | 120 | 150 | 10 | 0.45 | 150 | 200 | 11 | 65 | 65 | -- |
| 2N2476 | NPN CORE DRIVER | 60 | 20 | 5.0 | 0.20 | 50 | 20 | -- | 150 | 10 | 0.40 | 150 | 250 | 10 | 25 | 45 | -- |
| 2N2477 | NPN CORE DRIVER | 60 | 20 | 5.0 | 0.20 | 50 | 40 | -- | 150 | 10 | 0.40 | 150 | 250 | 10 | 25 | 45 | -- |
| 2N2479 | NPN AMPL/SWITCH | 80 | 40 | 5.0 | -- | -- | 30 | 120 | 150 | 10 | 0.85 | 150 | 150 | 14 | -- | -- | -- |
| 2N2481 | NPN SAT SWITCH | 40 | 15 | 5.0 | 0.50 | 20 | 40 | 120 | 10 | 1.0 | 0.25 | 10 | 300 | 5.0 | 40 | 55 | -- |
| 2N2594 | NPN AMPL/SWITCH | 80 | 80 | 7.0 | 0.10 | 60 | 50 | 150 | 100 | 5.0 | 1.00 | 200 | 40 | 20 | -- | -- | -- |
| 2N2657 | NPN AMPL/SWITCH | 80 | 60 | 7.0 | 0.10 | 60 | 40 | 120 | 1,000 | 2.0 | 0.50 | 1,000 | 20 | 150 | -- | -- | -- |
| 2N2658 | NPN AMPL/SWITCH | 100 | 80 | 7.0 | 0.10 | 60 | 40 | 120 | 1,000 | 2.0 | 0.50 | 1,000 | 20 | 150 | -- | -- | -- |
| 2N2726 | NPN HIGH VOLTAGE | 200 | 150 | 6.0 | 1.00 | 100 | 30 | 90 | 200 | 10 | 2.00 | 200 | 5.0 | -- | -- | -- | -- |
| 2N2727 | NPN HIGH VOLTAGE | 200 | 150 | 6.0 | 1.00 | 100 | 75 | 150 | 200 | 10 | 2.00 | 200 | 10 | -- | -- | -- | -- |
| 2N2800 | PNP AMPL/SWITCH | 50 | 35 | 5.0 | 0.10 | 30 | 30 | -- | 150 | 10 | 1.00 | 150 | 120 | 25 | -- | -- | -- |
| 2N2801 | PNP AMPL/SWITCH | 50 | 35 | 5.0 | 0.10 | 30 | 75 | -- | 150 | 10 | 1.00 | 150 | 120 | 25 | -- | -- | -- |