

Small Signal Transistors

TO-18 Case (Continued)



| TYPE NO. | DESCRIPTION | BV _{CBO} | BV _{CEO} | BV _{EBO} | I _{CBO} @ | V _{CB} | h _{FE} | | @ I _C | @ V _{CE} | V _{CE} (SAT) @ I _C | | C _{ob} | f _T | NF | t _{on} | t _{off} |
|----------|-----------------|-------------------|-------------------|-------------------|--|-----------------|-----------------|-----|------------------|-------------------|--|------|-----------------|----------------|-------------|-----------------|------------------|
| | | (V) MIN | (V) MIN | (V) MIN | (μA) MAX *I _{CE} S **I _{CE} V | (V) | MIN | MAX | (mA) | (V) | (V) MAX | (mA) | (pF) MAX | (MHz) MIN | (dB) MAX | (ns) MAX | (ns) MAX |
| 2N957 | NPN RF/IF OSC | 40 | 20 | 5.0 | -- | -- | 45 | -- | 10 | 10 | -- | -- | 6.0 | 200 | -- | -- | -- |
| 2N978 | PNP AMPL/SWITCH | 30 | 20 | 5.0 | 5.0 | 10 | 15 | 60 | 150 | 10 | 1.5 | 150 | 45 | 40 | -- | -- | -- |
| 2N995 | PNP SAT SWITCH | 20 | 15 | 4.0 | 0.005 | 15 | 35 | 140 | 20 | 1.0 | 0.2 | 20 | 10 | 100 | -- | 65 | 125 |
| 2N996 | PNP SAT SWITCH | 15 | 12 | 4.0 | 0.005 | 10 | 35 | -- | 20 | 1.0 | 0.3 | 60 | 10 | 100 | -- | -- | -- |
| 2N1991 | PNP AMPL/SWITCH | 30 | 20 | 5.0 | 5.0 | 10 | 15 | 60 | 150 | 10 | 1.5 | 150 | 45 | 40 | -- | -- | -- |
| 2N2205 | NPN SAT SWITCH | 25 | 12 | 3.0 | 0.025 | 15 | 20 | -- | 10 | 1.0 | 0.22 | 10 | 6.0 | 200 | -- | 40 | 75 |
| 2N2220 | NPN AMPL/SWITCH | 60 | 35 | 5.0 | 0.01 | 50 | 20 | 60 | 150 | 10 | 0.4 | 150 | 8.0 | 250 | -- | -- | -- |
| 2N2221A | NPN AMPL/SWITCH | 75 | 40 | 6.0 | 0.01 | 60 | 40 | 120 | 150 | 10 | 0.3 | 150 | 8.0 | 250 | -- | -- | 285 |
| 2N2222A | NPN AMPL/SWITCH | 75 | 40 | 6.0 | 0.01 | 60 | 100 | 300 | 150 | 10 | 0.3 | 150 | 8.0 | 250 | -- | -- | 285 |
| 2N2242 | NPN SAT SWITCH | 15 | 15 | 5.0 | -- | -- | 40 | 120 | 10 | 1.0 | 0.3 | 10 | 6.0 | 250 | -- | -- | 25 |
| 2N2368 | NPN SAT SWITCH | 40 | 15 | 4.0 | 0.4 | 20 | 20 | 40 | 10 | 1.0 | 0.25 | 10 | 4.0 | 400 | -- | 12 | 15 |
| 2N2369A | NPN SAT SWITCH | 40 | 15 | 4.0 | -- | -- | 40 | 120 | 10 | 1.0 | 0.25 | 1.5 | 4.0 | 500 | -- | -- | 18 |
| 2N2377 | PNP AMPL/SWITCH | 25 | 25 | 10 | 1.0 | 25 | 15 | 120 | 1.0 | 6.0 | -- | -- | 12 | -- | -- | -- | -- |
| 2N2378 | PNP AMPL/SWITCH | 10 | 10 | 10 | 0.1 | 10 | 15 | -- | 5.0 | 0.5 | 0.15 | 5.0 | 12 | -- | -- | -- | -- |
| 2N2411 | PNP SAT SWITCH | 25 | 20 | 5.0 | 0.01 | 25 | 20 | 60 | 10 | 0.5 | 0.2 | 10 | 5.0 | 200 | -- | 25 | 100 |
| 2N2412 | PNP SAT SWITCH | 25 | 20 | 5.0 | 0.01 | 25 | 40 | 120 | 10 | 0.5 | 0.2 | 10 | 5.0 | 200 | -- | 25 | 100 |
| 2N2475 | NPN SAT SWITCH | 15 | 6.0 | 4.0 | 0.5 | 5.0 | 30 | 150 | 20 | 0.4 | 0.4 | 1.0 | 3.0 | 600 | -- | 20 | 15 |
| 2N2483 | NPN LOW NOISE | 60 | 60 | 6.0 | 0.01 | 45 | 40 | 120 | 0.01 | 5.0 | 0.35 | 1.0 | 6.0 | 60 | 4.0 | -- | -- |
| 2N2484 | NPN LOW NOISE | 60 | 60 | 6.0 | 0.01 | 45 | 100 | 500 | 0.01 | 5.0 | 0.35 | 1.0 | 6.0 | 60 | 2.0 | -- | -- |
| 2N2501 | NPN SAT SWITCH | 40 | 20 | 6.0 | -- | -- | 50 | 150 | 10 | 1.0 | 0.2 | 10 | 4.0 | 350 | -- | -- | -- |
| 2N2509 | NPN LOW NOISE | 124 | 80 | 7.0 | 0.005 | 100 | 25 | -- | 0.01 | 5.0 | 1.0 | 5.0 | 6.0 | 45 | 7.0 | -- | -- |
| 2N2510 | NPN LOW NOISE | 100 | 65 | 7.0 | 0.005 | 80 | 150 | 500 | 10 | 5.0 | 1.0 | 5.0 | 6.0 | 45 | 4.0 | -- | -- |
| 2N2511 | NPN LOW NOISE | 80 | 50 | 7.0 | 0.005 | 60 | 240 | 750 | 10 | 5.0 | 1.0 | 5.0 | 6.0 | 45 | 4.0 | -- | -- |
| 2N2539 | NPN SAT SWITCH | 60 | 30 | 5.0 | 0.25 | 40 | 50 | 150 | 150 | 10 | 0.45 | 150 | 8.0 | 250 | -- | 40 | 40 |
| 2N2540 | NPN SAT SWITCH | 60 | 30 | 5.0 | 0.25 | 40 | 100 | 300 | 150 | 10 | 0.45 | 150 | 8.0 | 250 | -- | 40 | 40 |
| 2N2586 | NPN LOW NOISE | 60 | 45 | 6.0 | 0.200 | 45 | 120 | 360 | 0.01 | 5.0 | 0.5 | 10 | 7.0 | 45 | 3.0 | -- | -- |
| 2N2645 | NPN AMPL/SWITCH | 75 | 40 | 7.0 | 0.01 | 60 | 100 | 300 | 150 | 10 | 0.4 | 10 | 25 | 50 | -- | -- | -- |
| 2N2651 | NPN SAT SWITCH | 40 | 20 | 5.0 | 0.03 | 20 | 25 | -- | 10 | 1.0 | 0.25 | 10 | 4.0 | 350 | -- | 35 | 75 |
| 2N2710 | NPN SAT SWITCH | 40 | 20 | 5.0 | 0.03 | 20 | 40 | -- | 10 | 1.0 | 0.25 | 10 | 4.0 | 500 | -- | 20 | 35 |
| 2N2837 | PNP AMPL/SWITCH | 50 | 35 | 5.0 | 0.1 | 30 | 30 | -- | 150 | 10 | 1.0 | 150 | 25 | 120 | -- | -- | -- |
| 2N2838 | PNP AMPL/SWITCH | 50 | 35 | 5.0 | 0.1 | 30 | 75 | -- | 150 | 10 | 1.0 | 150 | 25 | 120 | -- | -- | -- |
| 2N2845 | NPN SAT SWITCH | 60 | 30 | 5.0 | 0.2 | 30 | 30 | 120 | 150 | 10 | 1.0 | 500 | 8.0 | 250 | -- | 40 | 40 |
| 2N2847 | NPN SAT SWITCH | 60 | 20 | 5.0 | 0.2 | 30 | 40 | 140 | 150 | 10 | 0.75 | 500 | 8.0 | 250 | -- | 25 | 40 |
| 2N2861 | PNP LOW NOISE | 25 | 20 | 5.0 | -- | -- | 30 | 120 | 0.01 | 5.0 | 0.2 | 10 | 6.0 | 200 | 3.0 | -- | -- |
| 2N2862 | PNP LOW NOISE | 25 | 20 | 5.0 | -- | -- | 12 | 120 | 0.01 | 5.0 | 0.2 | 10 | 6.0 | 150 | 4.0 | -- | -- |
| 2N2894 | PNP SAT SWITCH | 12 | 12 | 4.0 | 0.08* | 6.0 | 40 | 150 | 30 | 0.5 | 0.5 | 100 | 6.0 | 400 | -- | 60 | 90 |
| 2N2894A | PNP SAT SWITCH | 12 | 12 | 4.0 | 0.05 | 10 | 30 | -- | 10 | 0.3 | 0.13 | 10 | 4.5 | 800 | -- | 20 | 25 |
| 2N2895 | NPN AMPL/SWITCH | 120 | 65 | 7.0 | -- | -- | 40 | 120 | 150 | 10 | 0.5 | 500 | 15 | 120 | -- | -- | -- |

(6-December 2004)