

Small Signal Transistors

TO-18 Case (Continued)



| TYPE NO. | DESCRIPTION | BV _{CB0} | 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) | (V) | (V) | (μA) | | (V) | MIN | MAX | (mA) | (V) | (V) | (mA) | (pF) | (MHz) | (dB) | (ns) |
| | | MIN | MIN | MIN | MAX *ICES **ICEV | | | | | | MAX | MAX | MAX | MIN | MAX | MAX | MAX |
| 2N2896 | NPN AMPL/SWITCH | 140 | 90 | 7.0 | -- | -- | 60 | 200 | 150 | 10 | 0.5 | 500 | 15 | 120 | -- | -- | -- |
| 2N2897 | NPN AMPL/SWITCH | 60 | 45 | 7.0 | -- | -- | 50 | 200 | 150 | 10 | 0.5 | 500 | 15 | 100 | -- | -- | -- |
| 2N2906A | PNP AMPL/SWITCH | 60 | 60 | 5.0 | 0.01 | 50 | 40 | 120 | 150 | 10 | 0.4 | 150 | 8.0 | 200 | -- | -- | 180 |
| 2N2907A | PNP AMPL/SWITCH | 60 | 60 | 5.0 | 0.01 | 50 | 100 | 300 | 150 | 10 | 0.4 | 150 | 8.0 | 200 | -- | -- | 180 |
| 2N2952 | NPN AMPL/SWITCH | 60 | 20 | 5.0 | 0.1 | 50 | 20 | -- | 150 | 10 | 0.5 | 150 | 8.0 | 200 | -- | -- | -- |
| 2N3009 | NPN SAT SWITCH | 40 | 15 | 4.0 | 0.5* | 20 | 30 | 120 | 30 | 0.4 | 0.5 | 300 | 5.0 | 350 | -- | 15 | 25 |
| 2N3011 | NPN SAT SWITCH | 30 | 12 | 5.0 | 0.4* | 20 | 30 | 120 | 10 | 0.35 | 0.5 | 100 | 4.0 | 400 | -- | 15 | 20 |
| 2N3012 | PNP SAT SWITCH | 12 | 12 | 4.0 | 0.08* | 6.0 | 30 | 120 | 30 | 0.5 | 0.2 | 30 | 6.0 | 400 | -- | 60 | 75 |
| 2N3013 | NPN SAT SWITCH | 40 | 15 | 5.0 | 0.3* | 20 | 30 | 120 | 30 | 0.4 | 0.5 | 300 | 5.0 | 350 | -- | 15 | 25 |
| 2N3014 | NPN SAT SWITCH | 40 | 20 | 5.0 | 0.3* | 20 | 30 | 120 | 30 | 0.4 | 0.35 | 100 | 5.0 | 350 | -- | 16 | 25 |
| 2N3073 | PNP AMPL/SWITCH | 60 | 60 | 4.0 | 0.01* | 30 | 30 | 130 | 50 | 1.0 | 0.25 | 50 | 10 | 130 | -- | 40 | 100 |
| 2N3115 | NPN AMPL/SWITCH | 20 | 20 | 5.0 | -- | -- | 40 | 120 | 150 | 10 | 0.5 | 150 | 8.0 | 250 | -- | -- | -- |
| 2N3116 | NPN AMPL/SWITCH | 20 | 20 | 5.0 | -- | -- | 100 | 300 | 150 | 10 | 0.5 | 150 | 8.0 | 250 | -- | -- | -- |
| 2N3117 | NPN AMPL/SWITCH | 60 | 60 | 6.0 | 0.01 | 45 | 250 | 500 | 0.01 | 10 | 0.35 | 1.0 | 4.5 | 60 | -- | -- | -- |
| 2N3121 | PNP AMPL/SWITCH | 45 | 45 | 4.0 | 0.01 | 30 | 30 | -- | 150 | 10 | 0.5 | 150 | 10 | 130 | -- | -- | -- |
| 2N3135 | PNP AMPL/SWITCH | 50 | 35 | 4.0 | 0.05 | 30 | 40 | -- | 150 | 10 | 0.5 | 150 | 10 | 200 | -- | -- | -- |
| 2N3136 | PNP AMPL/SWITCH | 50 | 35 | 4.0 | 0.05 | 30 | 100 | 300 | 150 | 10 | 0.6 | 150 | 10 | 200 | -- | -- | -- |
| 2N3209 | PNP SAT SWITCH | 20 | 20 | 4.0 | 0.08 | 10 | 25 | -- | 10 | 0.3 | 0.15 | 10 | 5.0 | 400 | -- | 60 | 90 |
| 2N3210 | NPN SAT SWITCH | 40 | 15 | 5.0 | -- | -- | 30 | 120 | 10 | 5.0 | 0.5 | 100 | 4.0 | 400 | -- | 15 | 20 |
| 2N3241A | NPN AMPL/SWITCH | 30 | 25 | 7.5 | 100 | 25 | 100 | 200 | 10 | 10 | 0.25 | 200 | 20 | 50 | 10 | -- | -- |
| 2N3242A | NPN AMPL/SWITCH | 40 | 40 | 8.0 | 10 | 25 | 125 | 300 | 10 | 10 | 0.3 | 300 | 20 | 50 | 6.0 | -- | -- |
| 2N3246 | NPN LOW NOISE | 60 | 40 | 10 | 0.10 | 40 | 400 | -- | 1.0 | 5.0 | 0.5 | 5.0 | 5.0 | 60 | 2.0 | -- | -- |
| 2N3248 | PNP SAT SWITCH | 15 | 12 | 5.0 | 0.05 | 10 | 50 | 150 | 10 | 1.0 | 0.125 | 10 | 8.0 | 250 | -- | 15 | 20 |
| 2N3249 | PNP SAT SWITCH | 15 | 12 | 5.0 | 0.05 | 10 | 100 | 300 | 10 | 1.0 | 0.25 | 10 | 8.0 | 300 | -- | 15 | 20 |
| 2N3250A | PNP AMPL/SWITCH | 60 | 60 | 5.0 | 0.02 | 40 | 50 | 150 | 10 | 1.0 | 0.25 | 10 | 6.0 | 250 | -- | 35 | 50 |
| 2N3251A | PNP AMPL/SWITCH | 60 | 60 | 5.0 | 0.02 | 40 | 100 | 300 | 10 | 1.0 | 0.25 | 10 | 6.0 | 300 | -- | 35 | 50 |
| 2N3301 | NPN AMPL/SWITCH | 60 | 30 | 5.0 | 0.01 | 50 | 40 | 120 | 150 | 10 | 0.22 | 150 | 8.0 | 250 | -- | -- | -- |
| 2N3302 | NPN AMPL/SWITCH | 60 | 30 | 5.0 | 0.01 | 50 | 100 | 300 | 150 | 10 | 0.22 | 150 | 8.0 | 250 | -- | -- | -- |
| 2N3496 | PNP AMPL/SWITCH | 80 | 80 | 4.0 | 0.1 | 50 | 40 | -- | 10 | 10 | 0.3 | 10 | 7.0 | 200 | -- | -- | -- |
| 2N3497 | PNP AMPL/SWITCH | 120 | 120 | 4.0 | 0.1 | 90 | 40 | -- | 10 | 10 | 0.35 | 10 | 6.0 | 150 | -- | -- | -- |
| 2N3504 | PNP AMPL/SWITCH | 45 | 45 | 5.0 | -- | -- | 100 | 300 | 150 | 10 | 0.25 | 50 | 8.0 | 200 | -- | -- | -- |
| 2N3505 | PNP AMPL/SWITCH | 60 | 60 | 5.0 | 0.01 | 30 | 100 | 300 | 150 | 10 | 0.4 | 150 | 8.0 | 200 | -- | -- | -- |
| 2N3545 | PNP SAT SWITCH | 20 | 20 | 5.0 | -- | -- | 40 | 120 | 10 | 1.0 | 0.5 | 100 | 8.0 | 250 | -- | 60 | 90 |
| 2N3546 | PNP SAT SWITCH | 15 | 12 | 4.5 | 0.01 | 10 | 30 | 120 | 10 | 1.0 | 0.5 | 100 | 6.0 | 700 | -- | 40 | 30 |
| 2N3547 | PNP LOW NOISE | 60 | 60 | 6.0 | 0.025 | 45 | 100 | 500 | 1.0 | 5.0 | 1.0 | 10 | 8.0 | 45 | 5.0 | -- | -- |
| 2N3548 | PNP LOW NOISE | 60 | 45 | 6.0 | 0.01 | 45 | 100 | 300 | 0.01 | 5.0 | 1.0 | 10 | 8.0 | 60 | 4.0 | -- | -- |
| 2N3549 | PNP LOW NOISE | 60 | 60 | 6.0 | 0.01 | 45 | 100 | 500 | 0.01 | 5.0 | 1.0 | 10 | 8.0 | 60 | 4.0 | -- | -- |
| 2N3550 | PNP LOW NOISE | 60 | 45 | 8.0 | 0.01 | 45 | 200 | 600 | 0.01 | 5.0 | 0.5 | 5.0 | 8.0 | 60 | 4.0 | -- | -- |