

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) | | | (μA) | (V) | | | (mA) | | (V) | (mA) | (MHz) | (pF) | (ns) |
| | | MIN | *V _{CER} MIN | MIN | *I _{CEO} **I _{CES} ***I _{CEV} ****I _{CER} | | MIN | MAX | | | MAX | | *TYP MIN | *TYP MAX | *TYP MAX | *TYP MAX | *TYP MAX |
| 2N4030 | PNP AMPL/SWITCH | 60 | 60 | 5.0 | 0.50 | 50 | 40 | 120 | 100 | 5.0 | 0.50 | 500 | 100 | 20 | -- | -- | -- |
| 2N4031 | PNP AMPL/SWITCH | 80 | 80 | 5.0 | 0.50 | 60 | 100 | 300 | 100 | 5.0 | 0.50 | 500 | 150 | 20 | -- | -- | -- |
| 2N4032 | PNP AMPL/SWITCH | 60 | 60 | 5.0 | 0.50 | 50 | 40 | 120 | 100 | 5.0 | 0.50 | 500 | 100 | 20 | -- | -- | -- |
| 2N4033 | PNP AMPL/SWITCH | 80 | 80 | 5.0 | 0.05 | 60 | 100 | 300 | 100 | 5.0 | 0.50 | 500 | 150 | 20 | -- | -- | -- |
| 2N4036 | PNP AMPL/SWITCH | 90 | 65 | 7.0 | 1.0 | 90 | 40 | 140 | 150 | 10 | 0.65 | 150 | 60 | 30 | -- | -- | -- |
| 2N4037 | PNP AMPL/SWITCH | 60 | 40 | 7.0 | 0.25 | 60 | 50 | 250 | 150 | 10 | 1.40 | 150 | 60 | 30 | -- | -- | -- |
| 2N4046 | NPN CORE DRIVER | 50 | 30 | 6.0 | 1.70 | 40 | 40 | 150 | 100 | 1.0 | 0.75 | 1,000 | 250 | 12 | 35 | 60 | -- |
| 2N4047 | NPN CORE DRIVER | 80 | 50 | 6.0 | 1.70 | 60 | 40 | 150 | 100 | 1.0 | 0.95 | 1,000 | 250 | 10 | 35 | 60 | -- |
| 2N4234 | PNP AMPL/SWITCH | 40 | 40 | 7.0 | 100 | 40 | 30 | 150 | 250 | 1.0 | 0.60 | 1,000 | 3.0 | 100 | -- | -- | -- |
| 2N4235 | PNP AMPL/SWITCH | 60 | 60 | 7.0 | 100 | 60 | 30 | 150 | 250 | 1.0 | 0.60 | 1,000 | 3.0 | 100 | -- | -- | -- |
| 2N4236 | PNP AMPL/SWITCH | 80 | 80 | 7.0 | 100 | 80 | 30 | 150 | 250 | 1.0 | 0.60 | 1,000 | 3.0 | 100 | -- | -- | -- |
| 2N4237 | NPN POWER AMPL | 50 | 40 | 6.0 | 100 | 50 | 30 | 150 | 250 | 1.0 | 0.60 | 1,000 | 2.0 | 100 | -- | -- | -- |
| 2N4238 | NPN POWER AMPL | 80 | 60 | 6.0 | 100 | 80 | 30 | 150 | 250 | 1.0 | 0.60 | 1,000 | 2.0 | 100 | -- | -- | -- |
| 2N4239 | NPN POWER AMPL | 100 | 80 | 6.0 | 100 | 100 | 30 | 150 | 250 | 1.0 | 0.60 | 1,000 | 2.0 | 100 | -- | -- | -- |
| 2N4270 | NPN POWER AMPL | 200 | 140 | 6.0 | 1.00 | 150 | 40 | 200 | 10 | 10 | 1.00 | 10 | -- | 5.0 | -- | -- | -- |
| 2N4271 | NPN AMPL/SWITCH | 175 | 140 | 6.0 | 0.50 | 30 | 20 | 140 | 200 | 10 | 0.80 | 200 | 20 | 25 | -- | -- | -- |
| 2N4272 | NPN AMPL/SWITCH | 175 | 140 | 6.0 | 0.10 | 50 | 20 | 140 | 200 | 10 | 0.20 | 2,000 | 10 | 75 | -- | -- | -- |
| 2N4300 | NPN AMPL/SWITCH | 100 | 80 | 6.0 | 10 | 90 | 30 | 120 | 1.0 | 2.0 | 0.30 | 1.0 | 30 | -- | -- | -- | -- |
| 2N4314 | PNP AMPL/SWITCH | 90 | 65 | 7.0 | 0.25 | 60 | 50 | 250 | 150 | 10 | 1.40 | 150 | 60 | 30 | -- | -- | -- |
| 2N4358 | PNP HIGH VOLTAGE | 240 | 240 | 6.0 | 0.20 | 200 | 80 | 300 | 10 | 10 | 0.50 | 10 | -- | -- | -- | -- | -- |
| 2N4404 | PNP AMPL/SWITCH | 80 | 80 | 5.0 | 0.025 | 60 | 40 | 120 | 150 | 10 | 0.50 | 500 | 200 | 10 | -- | -- | -- |
| 2N4405 | PNP AMPL/SWITCH | 80 | 80 | 5.0 | 0.025 | 60 | 100 | 300 | 150 | 1.0 | 0.50 | 500 | 200 | 10 | -- | -- | -- |
| 2N4406 | PNP AMPL/SWITCH | 80 | 80 | 5.0 | 0.025 | 60 | 25 | 100 | 150 | 1.0 | 0.70 | 1,000 | 150 | 15 | -- | -- | -- |
| 2N4407 | PNP AMPL/SWITCH | 80 | 80 | 5.0 | 0.025 | 60 | 75 | 225 | 150 | 1.0 | 0.70 | 1,000 | 150 | 15 | -- | -- | -- |
| 2N4427 | NPN VHF OSCILLATOR | 40 | 20 | 3.5 | 20* | 12 | 10 | 200 | 100 | 5.0 | 0.50 | 100 | 500 | 4.0 | -- | -- | -- |
| 2N4863 | NPN AMPL/SWITCH | 140 | 120 | 6.0 | 0.10 | 60 | 50 | 150 | 0.5 | 5.0 | 0.20 | 0.5 | 50 | 50 | -- | -- | -- |
| 2N4875 | NPN AMPL/SWITCH | 40 | 25 | -- | 0.50 | 15 | 20 | 200 | 50 | 10 | -- | -- | 800 | -- | -- | -- | -- |
| 2N4876 | NPN AMPL/SWITCH | 40 | 30 | -- | 0.50 | 15 | 20 | 200 | 50 | 10 | -- | -- | -- | -- | -- | -- | -- |
| 2N4877 | NPN AMPL/SWITCH | 70 | 60 | 5.0 | 100 | 70 | 20 | 100 | 4,000 | 2.0 | 1.00 | 4,000 | 30 | -- | -- | -- | -- |
| 2N4890 | PNP AMPL/SWITCH | 60 | 40 | 5.0 | 0.25*** | 60 | 50 | 250 | 150 | 10 | 1.40 | 150 | 100 | 15 | -- | -- | -- |
| 2N4895 | NPN AMPL/SWITCH | 120 | 60 | 6.0 | 1.00** | 60 | 40 | 120 | 2,000 | 2.0 | 1.00 | 5,000 | 50 | 80 | -- | -- | -- |
| 2N4896 | NPN AMPL/SWITCH | 120 | 60 | 6.0 | 1.00** | 60 | 100 | 300 | 2,000 | 2.0 | 1.00 | 5,000 | 80 | 80 | -- | -- | -- |
| 2N4897 | NPN AMPL/SWITCH | 150 | 80 | 6.0 | 1.00** | 100 | 40 | 120 | 2,000 | 2.0 | 1.00 | 5,000 | 50 | 80 | -- | -- | -- |
| 2N4924 | NPN AMPL/SWITCH | 100 | 100 | 5.0 | 0.10 | 50 | 40 | 200 | 150 | 10 | 0.25 | 10 | 100 | 10 | -- | -- | -- |
| 2N4925 | NPN HIGH VOLTAGE | 150 | 150 | 5.0 | 0.10 | 75 | 40 | 200 | 150 | 10 | 0.25 | 10 | 100 | 10 | -- | -- | -- |
| 2N4926 | NPN HIGH VOLTAGE | 200 | 200 | 7.0 | 0.10 | 100 | 20 | 200 | 30 | 10 | 1.00 | 10 | 30 | 6.0 | -- | -- | -- |
| 2N4927 | NPN HIGH VOLTAGE | 250 | 250 | 7.0 | 0.10 | 150 | 20 | 200 | 30 | 10 | 1.00 | 10 | 30 | 6.0 | -- | -- | -- |
| 2N4928 | PNP HIGH VOLTAGE | 100 | 100 | 4.0 | 0.50 | 50 | 25 | 200 | 10 | 10 | 0.50 | 10 | 100 | 6.0 | -- | -- | -- |
| 2N4929 | PNP HIGH VOLTAGE | 150 | 150 | 4.0 | 0.50 | 75 | 25 | 200 | 10 | 10 | 0.50 | 10 | 100 | 10 | -- | -- | -- |

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