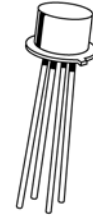


Small Signal NPN Transistors TO-72 Case



| 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} |
|----------|-------------------|------------------|------------------|------------------|--------------------|-----------------|-----------------|-------|------------------|-------------------|--|------|----------------|--------------------------|
| | | (V) | (V) | (V) | (μA) | (V) | MIN | MAX | (mA) | (V) | (V) | (mA) | (MHz) | *C _{cb} (pF) |
| | | MIN | MIN | MIN | MAX | | | | | | MAX | | MIN | MAX |
| 2N917 | RF/IF OSCILLATOR | 30 | 15 | 3.0 | 0.001 | 15 | 20 | -- | 3.0 | 1.0 | 0.5 | 3.0 | 500 | 1.7 |
| 2N917A | RF/IF OSCILLATOR | 30 | 15 | 3.0 | -- | -- | 20 | 200 | 3.0 | 10 | -- | -- | 600 | 1.7 |
| 2N918 | RF/IF OSCILLATOR | 30 | 15 | 3.0 | 0.01 | 15 | 20 | -- | 3.0 | 1.0 | 0.4 | 10 | 600 | 1.7 |
| 2N998 | DARLINGTON | 100 | 60 | 15 | 0.01 | 90 | 1,600 | 8,000 | 10 | 5.0 | 1.8 | 100 | 60 | 30 |
| 2N2857 | VHF/UHF OSC | 30 | 15 | 2.5 | 0.01 | 15 | 30 | 150 | 3.0 | 1.0 | -- | -- | 1,000 | 1.0* |
| 2N2865 | RF/IF OSCILLATOR | 25 | 13 | 3.0 | 0.01 | 15 | 20 | 200 | 4.0 | 10 | 0.4 | 10 | 600 | 2.5 |
| 2N3478 | VHF/UHF LOW NOISE | 30 | 15 | 2.0 | 0.02 | 1.0 | 25 | 150 | 2.0 | 8.0 | -- | -- | 750 | 1.0* |
| 2N3839 | VHF/UHF AMPL/OSC | 30 | 15 | 2.5 | 0.01 | 15 | 30 | 150 | 3.0 | 1.0 | -- | -- | 1,000 | 1.0* |
| 2N5179 | VHF/UHF AMPL/OSC | 20 | 12 | 2.5 | 0.02 | 15 | 25 | 250 | 3.0 | 1.0 | 0.4 | 10 | 900 | 1.0* |
| BFY90 | VHF/UHF AMPL/OSC | 30 | 15 | 2.5 | 0.01 | 15 | 20 | 125 | 25 | 1.0 | -- | -- | 1,000 | 1.5* |

Shaded areas indicate Darlington.

Dual Transistors TO-71 Case

P_D @ T_A=25°C=360mW Total (Both Die Equal Power)



| TYPE NO. | DESCRIPTION | V _{CBO} | V _{CEO} | V _{EBO} | I _{CBO} @ | V _{CB} | h _{FE} | | @ I _C | @ V _{CE} | V _{CE} (SAT) @ I _C | | MATCHING | |
|----------|---------------|------------------|------------------|------------------|--------------------|-----------------|-----------------|-----|------------------|-------------------|--|------|----------------------|-------------------------|
| | | (V) | (V) | (V) | (nA) | (V) | MIN | MAX | (mA) | (V) | (V) | (mA) | h _{FE} % | V _{BE} (mV) |
| | | MIN | MIN | MIN | MAX | | | | | | MAX | | | |
| CEN741 | NPN LOW NOISE | 45 | 45 | 6.0 | 10 | 45 | 150 | 600 | 0.01 | 5.0 | 0.35 | 1.0 | 20 | 5.0 |
| CEN832 | PNP LOW NOISE | 60 | 60 | 5.0 | 10 | 50 | 150 | 450 | 1.0 | 5.0 | 0.25 | 1.0 | 20 | 5.0 |