

Small Signal Transistors

TO-92 Case



| TYPE NO. | DESCRIPTION | LEAD CODE | V _{CB0} | V _{CEO} | V _{EBO} | I _{CB0} @ | V _{CB} | h _{FE} | | @ V _{CE} | @ I _C | V _{CE (SAT)} @ I _C | | C _{ob} | f _T | NF | t _{off} |
|----------|-----------------|-----------|------------------|-----------------------|------------------|-----------------------|-----------------|-----------------|------|-----------------------------|------------------|--|------|-----------------|----------------------|----------|------------------|
| | | | (V) | (V) | (V) | (nA) | | | (V) | (mA) | (V) | (mA) | (pF) | (MHz) | (dB) | | |
| | | | MIN | *V _{CES} MIN | MIN | *I _{CES} MAX | | MIN | MIN | *h _{FE} (1kHz) MAX | (V) | (mA) | (V) | (mA) | *C _{rb} MAX | *TYP MIN | MAX |
| 2N2712 | NPN AMPL/SWITCH | ECB | 18 | 18 | 5.0 | 500 | 18 | 75 | 250 | -- | -- | -- | -- | 12 | -- | 2.8 | -- |
| 2N2714 | NPN AMPL/SWITCH | ECB | 18 | 18 | 5.0 | 100 | 18 | 75 | 250 | 0.30 | 50 | 1.20 | 50 | -- | -- | -- | -- |
| 2N2923 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 90 | 180* | -- | -- | -- | -- | 10 | 160* | -- | -- |
| 2N2924 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 150 | 300* | -- | -- | -- | -- | 10 | 160* | -- | -- |
| 2N2925 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 235 | 470* | -- | -- | -- | -- | 10 | 160* | 2.8 | -- |
| 2N2926 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 500 | 18 | 35 | 470* | -- | -- | -- | -- | 10 | 120* | 2.8 | -- |
| 2N3391A | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 250 | 500 | 4.50 | 2.0 | -- | -- | 10 | 120* | 5.0 | -- |
| 2N3392 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 150 | 300 | 4.50 | 2.0 | -- | -- | 10 | 120* | -- | -- |
| 2N3393 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 90 | 180 | 4.50 | 2.0 | -- | -- | 10 | 120* | -- | -- |
| 2N3395 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 150 | 500 | 4.50 | 2.0 | -- | -- | 10 | -- | -- | -- |
| 2N3396 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 90 | 500 | 4.50 | 2.0 | -- | -- | 10 | -- | -- | -- |
| 2N3397 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 55 | 500 | 4.50 | 2.0 | -- | -- | 10 | -- | -- | -- |
| 2N3398 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 55 | 800 | 4.50 | 2.0 | -- | -- | 10 | -- | -- | -- |
| 2N3415 | NPN LOW NOISE | ECB | 25 | 25 | 5.0 | 100 | 25 | 180 | 540 | 4.50 | 2.0 | 0.30 | 50 | -- | -- | -- | -- |
| 2N3416 | NPN LOW NOISE | ECB | 50 | 50 | 5.0 | 100 | 25 | 75 | 225 | 4.50 | 2.0 | 0.30 | 50 | -- | -- | -- | -- |
| 2N3417 | NPN LOW NOISE | ECB | 50 | 50 | 5.0 | 100 | 50 | 180 | 540 | 4.50 | 2.0 | 0.30 | 50 | -- | -- | -- | -- |
| 2N3702 | PNP AMPL/SWITCH | ECB | 40 | 25 | 5.0 | 100 | 20 | 60 | 300 | 5.0 | 0.05 | 0.25 | 50 | 12 | 100 | -- | -- |
| 2N3703 | PNP AMPL/SWITCH | ECB | 50 | 30 | 5.0 | 100 | 20 | 30 | 150 | 5.0 | 50 | 0.25 | 50 | 12 | 100 | -- | -- |
| 2N3704 | NPN AMPL/SWITCH | ECB | 50 | 30 | 5.0 | 100 | 20 | 100 | 300 | 2.0 | 50 | 0.60 | 100 | 12 | 100 | -- | -- |
| 2N3705 | NPN AMPL/SWITCH | ECB | 50 | 30 | 5.0 | 100 | 20 | 50 | 150 | 2.0 | 50 | 0.80 | 100 | 12 | 100 | -- | -- |
| 2N3706 | NPN AMPL/SWITCH | ECB | 40 | 20 | 5.0 | 100 | 20 | 30 | 600 | 2.0 | 50 | 1.0 | 100 | 12 | 100 | -- | -- |
| 2N3707 | NPN LOW NOISE | ECB | 30 | 30 | 6.0 | 100 | 20 | 100 | 400 | 5.0 | 1.0 | 1.0 | 10 | -- | -- | 5.0 | -- |
| 2N3708 | NPN LOW NOISE | ECB | 30 | 30 | 6.0 | 100 | 20 | 45 | 660 | 5.0 | 1.0 | 1.0 | 10 | -- | -- | 5.0 | -- |
| 2N3709 | NPN LOW NOISE | ECB | 30 | 30 | 6.0 | 100 | 20 | 45 | 165 | 5.0 | 1.0 | 1.0 | 10 | -- | -- | 5.0 | -- |
| 2N3710 | NPN LOW NOISE | ECB | 30 | 30 | 6.0 | 100 | 20 | 90 | 330 | 5.0 | 1.0 | 1.0 | 10 | -- | -- | 5.0 | -- |
| 2N3711 | NPN LOW NOISE | ECB | 30 | 30 | 6.0 | 100 | 20 | 180 | 660 | 5.0 | 1.0 | 1.0 | 10 | -- | -- | 5.0 | -- |
| 2N3859A | NPN LOW NOISE | ECB | 60 | 60 | 6.0 | 50 | 60 | 100 | 200 | 4.50 | 2.0 | 0.125 | 10 | 4.0 | -- | 5.0 | -- |
| 2N3860 | NPN LOW NOISE | ECB | 30 | 30 | 4.0 | 50 | 30 | 150 | 300 | 4.50 | 2.0 | 0.125 | 10 | 4.0 | 90 | -- | -- |
| 2N3903 | NPN AMPL/SWITCH | EBC | 60 | 40 | 6.0 | 50* | 30 | 50 | 150 | 1.0 | 10 | 0.30 | 50 | 4.0 | 250 | 6.0 | 225 |
| 2N3904 | NPN AMPL/SWITCH | EBC | 60 | 40 | 6.0 | 50* | 30 | 100 | 300 | 1.0 | 10 | 0.30 | 50 | 4.0 | 300 | 5.0 | 250 |
| 2N3905 | PNP AMPL/SWITCH | EBC | 40 | 40 | 5.0 | 50* | 30 | 50 | 150 | 1.0 | 10 | 0.40 | 50 | 4.5 | 200 | 5.0 | 260 |
| 2N3906 | PNP AMPL/SWITCH | EBC | 40 | 40 | 5.0 | 50* | 30 | 100 | 300 | 1.0 | 10 | 0.40 | 50 | 4.5 | 250 | 4.0 | 300 |
| 2N4058 | PNP LOW NOISE | ECB | 30 | 30 | 6.0 | 100 | 20 | 100 | 400 | 5.0 | 0.10 | 0.70 | 10 | -- | -- | 5.0 | -- |
| 2N4123 | NPN AMPL/SWITCH | EBC | 40 | 30 | 5.0 | 50 | 20 | 50 | 150 | 1.0 | 2.0 | 0.30 | 50 | 4.0 | 250 | 6.0 | -- |
| 2N4124 | NPN AMPL/SWITCH | EBC | 30 | 25 | 5.0 | 50 | 20 | 120 | 360 | 1.0 | 2.0 | 0.30 | 50 | 4.0 | 300 | 5.0 | -- |
| 2N4125 | PNP AMPL/SWITCH | EBC | 30 | 30 | 4.0 | 50 | 20 | 50 | 150 | 1.0 | 2.0 | 0.40 | 50 | 4.5 | 200 | 5.0 | -- |
| 2N4126 | PNP AMPL/SWITCH | EBC | 25 | 25 | 4.0 | 50 | 20 | 120 | 360 | 1.0 | 2.0 | 0.40 | 50 | 4.5 | 250 | 4.0 | -- |
| 2N4264 | NPN SAT SWITCH | EBC | 30 | 15 | 6.0 | | 12 | 40 | 160 | 1.0 | 10 | 0.35 | 100 | 4.0 | 350 | -- | 35 |
| 2N4287 | NPN LOW NOISE | ECB | 45 | 45 | 7.0 | 10 | 30 | 150 | 600 | 5.0 | 1.0 | 0.35 | 1.0 | 6.0 | 40 | 5.0 | -- |
| 2N4289 | PNP LOW NOISE | ECB | 60 | 45 | 7.0 | 10 | 45 | 150 | 600 | 0.35 | 1.0 | 0.80 | 1.0 | 8.0 | 40 | 4.0 | -- |
| 2N4400 | NPN AMPL/SWITCH | EBC | 60 | 40 | 6.0 | 100* | 35 | 50 | 150 | 1.0 | 150 | 0.75 | 500 | 6.5 | 200 | -- | 255 |

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Devices are available lead formed.
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See pages 230 thru 235 for details.

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