

Small Signal Transistors

TO-92 Case (Continued)



| TYPE NO. | DESCRIPTION | LEAD CODE | V _{CB0} | V _{CEO} | V _{EBO} | I _{CBO} @ | 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) | MIN | MAX | (V) | (mA) | (V) | (mA) | (pF) | (MHz) | (dB) |
| | | | MIN | *V _{CES} MIN | MIN | *I _{CES} *I _{CEV} MAX | | | *h _{FE} (1kHz) | | | | MAX | *C _{rb} MAX | *TYP MIN | MAX | MAX |
| PN3641 | NPN AMPL/SWITCH | EBC | 60 | 30 | 5.0 | 50* | 50 | 40 | 120 | 10 | 150 | 0.22 | 150 | 8.0 | 150 | -- | 150 |
| PN3642 | NPN AMPL/SWITCH | EBC | 60 | 45 | 5.0 | 50* | 50 | 40 | 120 | 10 | 150 | 0.22 | 150 | 8.0 | 150 | -- | 150 |
| PN3643 | NPN AMPL/SWITCH | EBC | 60 | 30 | 5.0 | 50* | 50 | 100 | 300 | 10 | 150 | 0.22 | 150 | 8.0 | 250 | -- | 150 |
| PN3644 | PNP AMPL/SWITCH | EBC | 45 | 45 | 5.0 | 35* | 30 | 100 | 300 | 10 | 150 | 1.0 | 300 | 8.0 | 200 | -- | 100 |
| PN3645 | PNP AMPL/SWITCH | EBC | 60 | 60 | 5.0 | 35* | 50 | 100 | 300 | 10 | 150 | 1.0 | 300 | 8.0 | 200 | -- | 100 |
| PN3646 | NPN SAT SWITCH | EBC | 40 | 15 | 5.0 | 500* | 20 | 30 | 120 | 0.40 | 30 | 0.50 | 300 | 5.0 | 350 | -- | 28 |
| PN3694 | NPN AMPL/SWITCH | EBC | 45 | 45 | 4.0 | 50 | 30 | 100 | 400 | 10 | 10 | -- | -- | 6.0 | 200 | -- | -- |
| PN4033 | PNP AMPL/SWITCH | EBC | 80 | 80 | 5.0 | 50 | 60 | 100 | 300 | 5.0 | 100 | 0.5 | 500 | 20 | -- | -- | 50 |
| PN4249 | PNP LOW NOISE | EBC | 60 | 60 | 5.0 | 10 | 40 | 100 | 300 | 5.0 | 0.10 | 0.25 | 10 | 6.0 | 40 | 3.0 | -- |
| PN4250A | PNP LOW NOISE | EBC | 60 | 60 | 5.0 | 10 | 50 | 250 | 700 | 5.0 | 0.10 | 0.25 | 10 | 6.0 | 50 | 2.0 | -- |
| PN4258 | PNP SAT SWITCH | EBC | 12 | 12 | 4.5 | 10* | 6.0 | 30 | 120 | 3.0 | 10 | 0.50 | 50 | 3.0 | 700 | -- | 20 |
| PN4274 | NPN SAT SWITCH | EBC | 30 | 12 | 4.5 | 400* | 20 | 35 | 120 | 1.0 | 10 | 0.50 | 100 | 4.0 | 400 | -- | 12 |
| PN4275 | NPN SAT SWITCH | EBC | 40 | 15 | 4.5 | 400* | 20 | 35 | 120 | 1.0 | 10 | 0.50 | 100 | 4.0 | 400 | -- | 12 |
| PN4354 | PNP AMPL/SWITCH | EBC | 60 | 60 | 5.0 | 50 | 50 | 50 | 500 | 10 | 10 | 0.50 | 500 | 30 | 100 | 3.0 | 400 |
| PN4355 | PNP AMPL/SWITCH | EBC | 60 | 60 | 5.0 | 50 | 50 | 100 | 400 | 10 | 10 | 1.0 | 1,000 | 30 | 100 | 3.0 | 400 |
| PN4356 | PNP AMPL/SWITCH | EBC | 80 | 80 | 5.0 | 50 | 50 | 50 | 250 | 10 | 10 | 0.50 | 500 | 30 | 100 | 3.0 | 400 |
| PN4916 | PNP AMPL/SWITCH | EBC | 30 | 30 | 5.0 | 25 | 15 | 70 | 200 | 1.0 | 10 | 0.30 | 50 | 4.5 | 400 | 4.0 | -- |
| PN4917 | PNP AMPL/SWITCH | EBC | 30 | 30 | 5.0 | 25 | 15 | 150 | 300 | 1.0 | 10 | 0.30 | 50 | 4.5 | 450 | 4.0 | -- |
| PN5127 | NPN AMPL/SWITCH | EBC | 20 | 12 | 3.0 | 50 | 10 | 15 | 300 | 10 | 2.0 | 0.30 | 10 | 3.5 | 150 | -- | -- |
| PN5128 | NPN AMPL/SWITCH | EBC | 15 | 12 | 3.0 | 50 | 10 | 35 | 350 | 10 | 50 | 0.25 | 150 | 10 | 150 | -- | -- |
| PN5129 | NPN AMPL/SWITCH | EBC | 15 | 12 | 3.0 | 50 | 10 | 35 | 350 | 10 | 50 | 0.25 | 150 | 10 | -- | -- | -- |
| PN5130 | NPN RF OSC | EBC | 30 | 12 | 1.0 | 50 | 10 | 15 | 250 | 10 | 8.0 | 0.60 | 10 | 1.7 | -- | 400 | -- |
| PN5131 | NPN AMPL/SWITCH | EBC | 20 | 15 | 3.0 | 50 | 10 | 30 | 50 | 1.0 | 10 | 1.0 | 10 | 6.0 | 100 | -- | -- |
| PN5132 | NPN AMPL/SWITCH | EBC | 20 | 20 | 3.0 | 50 | 10 | 30 | 400 | 10 | 10 | 2.0 | 10 | 3.5 | 200 | 4.0 | -- |
| PN5133 | NPN LOW NOISE | EBC | 20 | 18 | 3.0 | 50 | 15 | 60 | 1,000 | 5.0 | 1.0 | 0.40 | 1.0 | 5.0 | 40 | -- | -- |
| PN5134 | NPN SAT SWITCH | EBC | 20 | 10 | 3.5 | 10,000 | 15 | 20 | 150 | 1.0 | 10 | 0.25 | 10 | 4.0 | -- | -- | 18 |
| PN5135 | NPN AMPL/SWITCH | EBC | 30 | 25 | 4.0 | 300 | 15 | 50 | 600 | 10 | 10 | 1.0 | 100 | 25 | 40 | -- | -- |
| PN5136 | NPN AMPL/SWITCH | EBC | 30 | 20 | 3.0 | 100 | 20 | 20 | 400 | 1.0 | 150 | 0.25 | 150 | 35 | 40 | -- | -- |
| PN5137 | NPN AMPL/SWITCH | EBC | 30 | 20 | 3.0 | 100 | 20 | 20 | 400 | 1.0 | 150 | 0.25 | 150 | 35 | 40 | -- | -- |
| PN5138 | PNP AMPL/SWITCH | EBC | 30 | 30 | 5.0 | 50 | 20 | 50 | 800 | 10 | 0.10 | 0.30 | 10 | 7.0 | 30 | -- | -- |
| PN5139 | PNP AMPL/SWITCH | EBC | 20 | 20 | 5.0 | 50* | 15 | 40 | -- | 1.0 | 10 | 0.50 | 50 | 5.0 | 300 | -- | 200 |
| PN5142 | PNP AMPL/SWITCH | EBC | 20 | 20 | 4.0 | 50* | 12 | 30 | -- | 1.0 | 50 | 2.0 | 300 | 10 | -- | -- | 200 |
| PN5143 | PNP AMPL/SWITCH | EBC | 20 | 20 | 4.0 | 50* | 12 | 30 | -- | 1.0 | 50 | 2.0 | 300 | 10 | -- | -- | 200 |
| PN5825 | NPN AMPL/SWITCH | EBC | 50 | 40 | 5.0 | 50 | 40 | 100 | 200 | 5.0 | 2.0 | 0.125 | 10 | 4.0 | 90 | -- | -- |
| PN5826 | NPN AMPL/SWITCH | EBC | 50 | 40 | 5.0 | 50 | 40 | 150 | 300 | 5.0 | 2.0 | 0.125 | 10 | 4.0 | 90 | -- | -- |
| PN5827 | NPN AMPL/SWITCH | EBC | 50 | 40 | 5.0 | 50 | 40 | 250 | 500 | 5.0 | 2.0 | 0.125 | 10 | 4.0 | 90 | -- | -- |
| PN5828 | NPN AMPL/SWITCH | EBC | 50 | 40 | 5.0 | 50 | 40 | 400 | 800 | 5.0 | 2.0 | 0.125 | 10 | 4.0 | 90 | -- | -- |
| PN5910 | PNP SAT SWITCH | EBC | 20 | 20 | 4.5 | 10* | 10 | 30 | 120 | 0.30 | 10 | 0.50 | 50 | 3.0 | 700 | -- | 20 |
| PN6010 | NPN AMPL/SWITCH | EBC | 50 | 40 | 5.0 | 10 | 25 | 100 | 300 | 1.0 | 10 | 0.50 | 500 | 10 | 105 | 5.0 | 400 |

Devices are available lead formed,
See pages 216 thru 219 for details.
Also available in Ammpack or Tape & Reel,
See pages 230 thru 235 for details.

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(1-March 2012)

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PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

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- Consolidated shipping options
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- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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