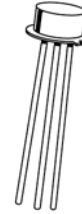


# Small Signal Transistors

## TO-46 Case



| TYPE NO. | DESCRIPTION     | BV <sub>CB0</sub> | BV <sub>CEO</sub> | BV <sub>EBO</sub> | I <sub>CB0</sub> @ | V <sub>CB</sub> | h <sub>FE</sub> |     | @ I <sub>C</sub> | @ V <sub>CE</sub> | V <sub>CE</sub> (SAT) @ I <sub>C</sub> |       | C <sub>ob</sub> | f <sub>T</sub> | N <sub>F</sub> | t <sub>off</sub> |
|----------|-----------------|-------------------|-------------------|-------------------|--------------------|-----------------|-----------------|-----|------------------|-------------------|--|-------|-----------------|----------------|----------------|------------------|
|          |                 | (V)               | (V)               | (V)               | (μA)               | (V)             | MIN             | MAX | (mA)             | (V)               | (V)                                    | (mA)  | (pF)            | (MHz)          | (dB)           | (ns)             |
|          |                 | MIN               | MIN               | MIN               | ***ICEV            |                 |                 |     |                  |                   | MAX                                    | MAX   | MAX             | MIN            | MAX            | MAX              |
| 2N2604   | PNP LOW NOISE   | 60                | 45                | 6.0               | 0.01               | 45              | 40              | 120 | 0.01             | 5.0               | 0.5                                    | 10    | 6.0             | 30             | 4.0            | --               |
| 2N2605   | PNP LOW NOISE   | 60                | 45                | 6.0               | 0.01               | 45              | 100             | 300 | 0.01             | 5.0               | 0.5                                    | 10    | 6.0             | 30             | 3.0            | --               |
| 2N3485*  | PNP AMPL/SWITCH | 60                | 40                | 5.0               | 0.02               | 50              | 40              | 120 | 150              | 10                | 1.6                                    | 500   | 8.0             | 200            | --             | 180              |
| 2N3485A* | PNP AMPL/SWITCH | 60                | 60                | 5.0               | 0.01               | 50              | 40              | 120 | 150              | 10                | 1.6                                    | 500   | 8.0             | 200            | --             | 180              |
| 2N3486*  | PNP AMPL/SWITCH | 60                | 40                | 5.0               | 0.02               | 50              | 100             | 300 | 150              | 10                | 1.6                                    | 500   | 8.0             | 200            | --             | 180              |
| 2N3486A* | PNP AMPL/SWITCH | 60                | 60                | 5.0               | 0.01               | 50              | 100             | 300 | 150              | 10                | 1.6                                    | 500   | 8.0             | 200            | --             | 180              |
| 2N3508   | NPN SAT SWITCH  | 40                | 20                | 6.0               | 0.2                | 20              | 40              | 120 | 10               | 1.0               | 0.45                                   | 100   | 4.0             | 500            | --             | 28               |
| 2N3509*  | NPN SAT SWITCH  | 40                | 20                | 6.0               | 0.2                | 20              | 100             | 300 | 10               | 1.0               | 0.45                                   | 100   | 4.0             | 500            | --             | 28               |
| 2N3647*  | NPN SAT SWITCH  | 40                | 10                | 6.0               | 0.025**            | 10              | 25              | 150 | 150              | 1.0               | 0.6                                    | 300   | 4.0             | 350            | --             | 25               |
| 2N3648*  | NPN SAT SWITCH  | 40                | 15                | 6.0               | 0.025**            | 10              | 30              | 120 | 150              | 1.0               | 0.8                                    | 500   | 4.0             | 450            | --             | 18               |
| 2N3673*  | NPN AMPL/SWITCH | 60                | 50                | 5.0               | 0.01               | 50              | 75              | 225 | 150              | 10                | 1.6                                    | 500   | 9.0             | 200            | --             | 100              |
| 2N3736*  | NPN SAT SWITCH  | 50                | 30                | 5.0               | 0.2**              | 25              | 30              | 120 | 1,000            | 1.5               | 0.9                                    | 1,000 | 9.0             | 250            | --             | 60               |
| 2N3737*  | NPN SAT SWITCH  | 75                | 50                | 5.0               | 0.2**              | 40              | 20              | 80  | 1,000            | 1.5               | 0.9                                    | 1,000 | 9.0             | 250            | --             | 60               |
| 2N4449*  | NPN AMPL/SWITCH | 40                | 15                | 4.5               | 0.4                | 20              | 40              | --  | 10               | 1.0               | 0.18                                   | 10    | 4.0             | 500            | --             | 12               |
| 2N5581*  | NPN AMPL/SWITCH | 75                | 40                | 6.0               | 0.01               | 50              | 40              | 120 | 150              | 10                | 1.6                                    | 500   | 8.0             | 250            | --             | 285              |
| 2N5582   | NPN AMPL/SWITCH | 75                | 40                | 6.0               | 0.01               | 50              | 100             | 300 | 150              | 10                | 1.6                                    | 500   | 8.0             | 300            | --             | 285              |

\*Available on special order; please consult factory.

This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.