

SMALL-SIGNAL TRANSISTORS — PLASTIC (continued)

Central Collector 800 MW TO-92

The transistors listed in this table have been designed to provide power dissipation. These devices are listed in order of decreasing breakdown voltage (BV_{CEO}).

| Device Type | BV _{CEO} Volts Min. | I _C Amp Cont. | h _{FE} Min. @ I _C mA | V _{CE(sat)} Volts Max. @ I _C mA | I _B mA | f _T MHz Min. @ I _C mA | PIN OUT |
|-------------|------------------------------|--------------------------|--|---|-------------------|---|---------|
|-------------|------------------------------|--------------------------|--|---|-------------------|---|---------|

NPN

| | | | | | | | | | | |
|-------|-----|-----|----|------|-----|------|-----|----|----|-----|
| BF420 | 300 | 0.1 | 40 | 25 | 2.0 | 20 | 2 | 60 | 10 | ECB |
| BF422 | 250 | 0.1 | 50 | 25 | 2.0 | 20 | 2 | 60 | 10 | ECB |
| BC639 | 80 | 1.0 | 40 | 150 | 0.5 | 500 | 50 | 60 | 10 | ECB |
| BC637 | 60 | 1.0 | 40 | 150 | 0.5 | 500 | 50 | 60 | 10 | ECB |
| BC635 | 45 | 1.0 | 40 | 150 | 0.5 | 500 | 50 | 60 | 10 | ECB |
| BC368 | 20 | 1.0 | 60 | 1000 | 0.5 | 1000 | 100 | 65 | 10 | ECB |

PNP

| | | | | | | | | | | |
|-------|-----|-----|----|------|-----|------|-----|----|----|-----|
| BF421 | 300 | 0.1 | 40 | 25 | 2.0 | 20 | 2 | 60 | 10 | ECB |
| BF423 | 250 | 0.1 | 50 | 25 | 2.0 | 20 | 2 | 60 | 10 | ECB |
| BC640 | 80 | 1.0 | 40 | 150 | 0.5 | 500 | 50 | 60 | 10 | ECB |
| BC639 | 60 | 1.0 | 40 | 150 | 0.5 | 500 | 50 | 60 | 10 | ECB |
| BC636 | 45 | 1.0 | 40 | 150 | 0.5 | 500 | 50 | 60 | 10 | ECB |
| BC369 | 20 | 1.0 | 60 | 1000 | 0.5 | 1000 | 100 | 65 | 10 | ECB |

Telecom Transistors (TO92)

These devices are special product ranges intended for use in Telecom application which require an excellent long term reliability.

| NPN DEVICES | PNP DEVICES | BV _{CEO} V | PDmW 25°C Amb | I _C (mA) Cont | HFE | | | | F _T Min MHz | PIN OUT |
|-------------|---|---------------------|---------------|--------------------------|-----|-----|---------------------|---------------------|------------------------|---------|
| | | | | | min | max | I _C (mA) | V _{CE} (V) | | |
| P2N2222 | P2N2907 P2N2907A (1)PBF259,S (1)PBF259R,RS (2)PBF493,S (2)PBF493R,RS | 30 | 625 | 600 | 75 | — | 10 | 10 | 250 | CBE |
| P2N2222A | | 40 | 625 | 600 | 75 | — | 10 | 10 | 300 | CBE |
| | | 40 | 625 | 600 | 75 | — | 10 | 10 | 200 | CBE |
| | | 60 | 625 | 600 | 100 | — | 10 | 10 | 200 | CBE |
| | | 300 | 625 | 500 | 25 | — | 1 | 10 | 40 | EBC |
| | | 300 | 625 | 500 | 25 | — | 1 | 10 | 40 | CBE |
| | 300 | 625 | 500 | 40 | — | 1 | 10 | 40 | EBC | |
| | 300 | 625 | 500 | 40 | — | 1 | 10 | 40 | CBE | |

(1) "S" version, HFE Min 60 @ I_C = 20 mA, V_{CE} = 10 V.

(2) "S" version, HFE Min 40 @ I_C = 0.1 mA, V_{CE} = 1 V.