Not Recommended for New Design
Please Use ZTX549 / ZTX751

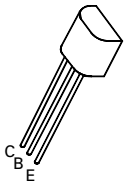
# PNP SILICON PLANAR MEDIUM POWER TRANSISTORS

**2N6726**
**2N6727**

**ISSUE 1 – MARCH 94**

FEATURES

* 40 Volt $V_{CEO}$
* Gain of 50 at $I_C$ = 1 Amp
* $P_{tot}$=1 Watt




**E-Line**
**TO92 Compatible**

## ABSOLUTE MAXIMUM RATINGS.

| PARAMETER | SYMBOL | 2N6726 | 2N6727 | UNIT |
|---|---|---|---|---|
| Collector-Base Voltage | $V_{CBO}$ | -40 | -50 | V |
| Collector-Emitter Voltage | $V_{CEO}$ | -30 | -40 | V |
| Emitter-Base Voltage | $V_{EBO}$ | -5 | | V |
| Peak Pulse Current | $I_{CM}$ | -2 | | A |
| Continuous Collector Current | $I_C$ | -1 | | A |
| Power Dissipation at $T_{amb}$= 25°C | $P_{tot}$ | 1 | | W |
| Operating and Storage Temperature Range | $T_j$:$T_{stg}$ | -55 to +200 | | °C |

## ELECTRICAL CHARACTERISTICS (at $T_{amb}$ = 25°C unless otherwise stated).

| PARAMETER | SYMBOL | 2N6726 | | 2N6727 | | UNIT | CONDITIONS. |
|---|---|---|---|---|---|---|---|
| | | MIN. | MAX. | MIN. | MAX. | | |
| Collector-Base Breakdown Voltage | $V_{(BR)CBO}$ | -40 | | -50 | | V | $I_C$=-1mA, $I_E$=0 |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | -30 | | -40 | | V | $I_C$=-10mA, $I_B$=0* |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | -5 | | -5 | | V | $I_E$=-1mA, $I_C$=0 |
| Collector Cut-Off Current | $I_{CBO}$ | | -0.1 | | <br>-0.1 | µA<br>µA | $V_{CB}$=-40V, $I_E$=0<br>$V_{CB}$=-50V, $I_E$=0 |
| Emitter Cut-Off Current | $I_{EBO}$ | | -0.1 | | -0.1 | µA | $V_{EB}$=-5V, $I_C$=0 |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | | -0.5 | | -0.5 | V | $I_C$=-1A, $I_B$=-100mA* |
| Base-Emitter Turn-On Voltage | $V_{BE(on)}$ | | -1.2 | | -1.2 | V | IC=-1A, $V_{CE}$=-1V* |
| Static Forward Current Transfer Ratio | $h_{FE}$ | 55<br>60<br>50 | <br><br>250 | 55<br>60<br>50 | <br><br>250 | | $I_C$=-10mA, $V_{CE}$=-1V*<br>$I_C$=-100mA, $V_{CE}$=-1V*<br>$I_C$=-1A, $V_{CE}$=-1V* |
| Transition Frequency | $f_T$ | 50 | 500 | 50 | 500 | MHz | $I_C$=-50mA, $V_{CE}$=-10V |
| Collector Base Capacitance | $C_{CB}$ | | 30 | | 30 | pF | $V_{CE}$=-10V, f=1MHz |