

2N5344  
 2N5345

**HIGH VOLTAGE POWER PNP SILICON TRANSISTORS**  
 . . . designed for high-voltage switching and amplifier applications.

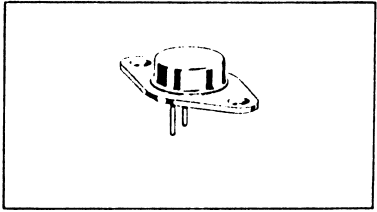
- High Voltage Ratings –  $V_{CEO} = 250$  and  $300$  Vdc
- Fast Switching Times – Typically Less Than  $550$  ns  
 Total @  $V_{CC} = 100$  Vdc
- High Current-Gain-Bandwidth Product –  
 $f_T = 60$  MHz (Min) @  $I_C = 100$  mAdc
- Packaged in the Compact, High-Efficiency TO-66 Case

**1 AMPERE  
 POWER TRANSISTORS  
 PNP SILICON**

**250-300 VOLTS  
 40 WATTS**

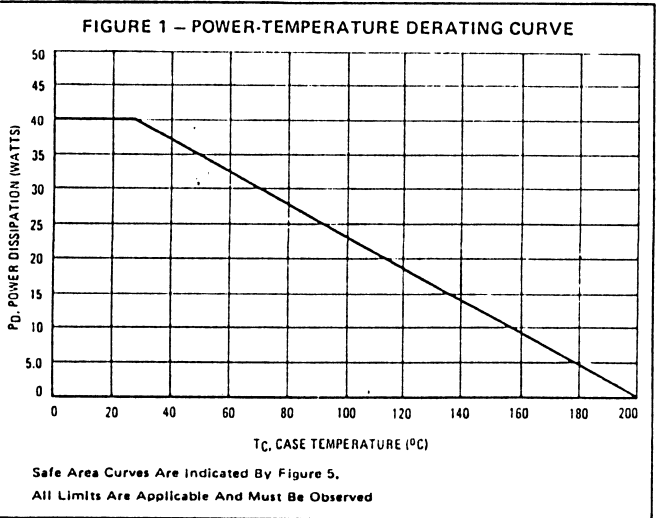
**MAXIMUM RATINGS**

| Rating   | Symbol         | 2N5344      | 2N5345 | Unit                          |
|--|----------------|-------------|--------|-------------------------------|
| Collector-Emitter Voltage  | $V_{CEO}$      | 250         | 300    | Vdc                           |
| Collector-Base Voltage   | $V_{CB}$       | 250         | 300    | Vdc                           |
| Emitter-Base Voltage   | $V_{EB}$       | 5.0         |        | Vdc                           |
| Collector Current – Continuous   | $I_C$          | 1.0         |        | Adc                           |
| Base Current – Continuous  | $I_B$          | 0.5         |        | Adc                           |
| Total Device Dissipation @ $T_C = 25^\circ\text{C}$<br>Derate above $25^\circ\text{C}$ | $P_D$          | 40          | 228    | Watts<br>mW/ $^\circ\text{C}$ |
| Operating and Storage Junction<br>Temperature Range                                    | $T_J, T_{stg}$ | -65 to +200 |        | $^\circ\text{C}$              |



**THERMAL CHARACTERISTICS**

| Characteristic                       | Symbol        | Max  | Unit                      |
|--------------------------------------|---------------|------|---------------------------|
| Thermal Resistance, Junction to Case | $\theta_{JC}$ | 4.38 | $^\circ\text{C}/\text{W}$ |



STYLE 1:  
 PIN 1. BASE  
 2. EMITTER  
 CASE: COLLECTOR

| DIM | MILLIMETERS |       | INCHES |       |
|-----|-------------|-------|--------|-------|
|     | MIN         | MAX   | MIN    | MAX   |
| B   | 11.94       | 12.70 | 0.470  | 0.500 |
| C   | 6.35        | 8.64  | 0.250  | 0.340 |
| D   | 0.71        | 0.86  | 0.028  | 0.034 |
| E   | 1.27        | 1.91  | 0.050  | 0.075 |
| F   | 24.33       | 24.43 | 0.958  | 0.962 |
| G   | 4.83        | 5.33  | 0.190  | 0.210 |
| H   | 2.41        | 2.67  | 0.095  | 0.105 |
| J   | 14.48       | 14.99 | 0.570  | 0.590 |
| K   | 9.14        | -     | 0.360  | -     |
| P   | -           | 1.27  | -      | 0.050 |
| Q   | 3.61        | 3.86  | 0.142  | 0.152 |
| S   | -           | 8.89  | -      | 0.350 |
| T   | -           | 3.68  | -      | 0.145 |
| U   | -           | 15.75 | -      | 0.620 |

All JEDEC Dimensions and Notes Apply.  
 CASE 80-02  
 TO-66

