



Micro Commercial Components

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2SB744

Features

- Capable of 10Watts of Power Dissipation.
- Collector-current 3.0A
- Collector-base Voltage 70V
- Operating and storage junction temperature range: -55°C to +150°C
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking: B744

Maximum Ratings

| Symbol | Rating | Rating | Unit |
|------------------|-----------------------------|-------------|------|
| V _{CEO} | Collector-Emmitter Voltage | 45 | V |
| V _{CBO} | Collector-Base Voltage | 70 | V |
| V _{EBO} | Emitter-Base Voltage | 5.0 | V |
| I _C | Collector Current | 3.0 | A |
| P _C | Collector power dissipation | 10 | W |
| T _J | Junction Temperature | -55 to +150 | °C |
| T _{STG} | Storage Temperature | -55 to +150 | °C |

Electrical Characteristics @ 25°C Unless Otherwise Specified

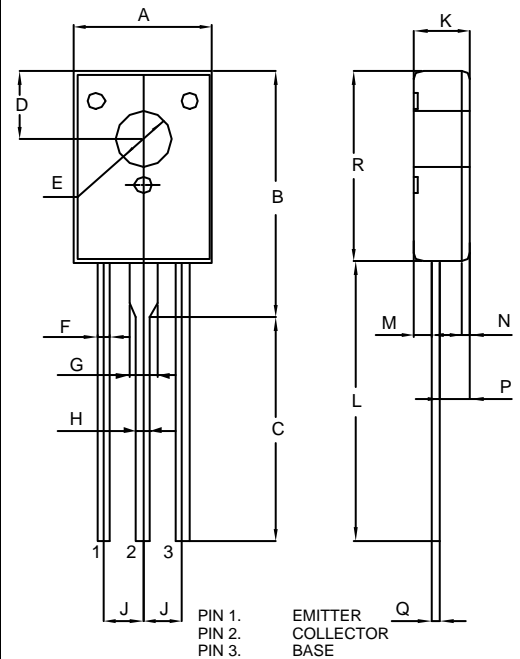
| Symbol | Parameter | Min | Max | Units |
|----------------------------|---|-----|-----|-------|
| OFF CHARACTERISTICS | | | | |
| V _{CEO(SUS)} | Collector-Emmitter Sustaining Voltage (I _C =1.0mA, I _B =0) | 45 | --- | Vdc |
| V _{(BR)CBO} | Collector-Base Breakdown Voltage (I _C =1.0mA, I _E =0) | 70 | --- | Vdc |
| V _{(BR)EBO} | Emitter-Base Breakdown Voltage (I _E =1.0mA, I _C =0) | 5.0 | --- | Vdc |

ON CHARACTERISTICS

| | | | | |
|----------------------|--|-----|-----|-----|
| h _{FE(1)} | Forward Current Transfer ratio (I _C =20mA, V _{CE} =5.0Vdc) | 30 | --- | --- |
| h _{FE(2)} | Forward Current Transfer ratio (I _C =0.5A, V _{CE} =5.0Vdc) | 60 | 320 | --- |
| V _{CE(sat)} | Collector-Emmitter Saturation Voltage (I _C =1.5A, I _B =0.15A) | --- | 2.0 | Vdc |

PNP Silicon Power Transistor

TO-126



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| A | 0.30 | 0.33 | 7.70 | 8.30 | |
| B | | 0.56 | | 14.20 | |
| C | 0.50 | 0.53 | 12.76 | 13.36 | |
| D | 0.15 | 0.16 | 3.80 | 4.0 | |
| E | 0.12 | 0.13 | 3.10 | 3.30 | |
| F | 0.025 | 0.033 | 0.65 | 0.85 | |
| G | 0.06 | 0.07 | 1.50 | 1.70 | |
| H | 0.025 | 0.033 | 0.65 | 0.85 | |
| J | 0.08 | 0.10 | 2.08 | 2.48 | |
| K | 0.12 | 0.14 | 3.05 | 3.45 | |
| L | 0.63 | 0.64 | 15.90 | 16.30 | |
| M | | 0.04 | | 1.0 | |
| N | | 0.02 | | 0.5 | |
| P | 0.06 | 0.08 | 1.55 | 1.95 | |
| Q | 0.018 | 0.023 | 0.45 | 0.60 | |
| R | 0.43 | 0.44 | 10.80 | 11.20 | |



TM

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