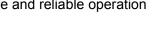


isc Silicon PNP Power Transistor

DESCRIPTION

- DC Current Gain-
- : $h_{FE} = 40(Min)@I_C = -1A$
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -40V(Min)
- Complement to Type TIP33
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

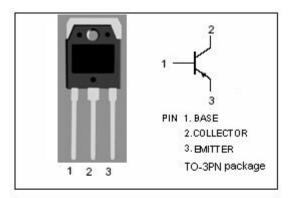


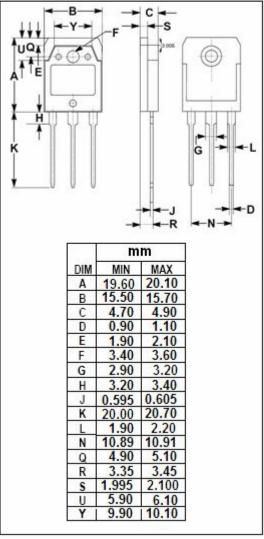
APPLICATIONS

• Designed for use in general purpose power amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

| SYMBOL | PARAMETER | VALUE | | UNIT | | | | |
|-------------------------|---|---------|-----|---------------|--|--|--|--|
| V _{CBO} | Collector-Base Voltage | | -40 | V | | | | |
| V _{CEO} | Collector-Emitter Voltage | -40 | | V | | | | |
| V _{EBO} | Emitter-Base Voltage | | -5 | V | | | | |
| Ic | Collector Current -Continuous | -10 | | Α | | | | |
| I _{CM} | Collector Current-peak | -15 | | Α | | | | |
| l _Β | Base Current | -3 | | Α | | | | |
| Pc | Collector Power Dissipation@ T _C =25°C | 80 | | W | | | | |
| Tj | Junction Temperature | 150 | | ${\mathbb C}$ | | | | |
| T _{stg} | Storage Temperature | -65~150 | | $^{\circ}$ | | | | |
| THERMAL CHARACTERISTICS | | | | | | | | |
| SYMBOL | PARAMETER | | MAX | UNIT | | | | |
| R _{th j-c} | Thermal Resistance,Junction to Case | 1.56 | | °C/W | | | | |







isc Silicon PNP Power Transistor

TIP34

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | MAX | UNIT |
|------------------------|--------------------------------------|--|-----|------|------|
| V _{CEO(SUS)} | Collector-Emitter Sustaining Voltage | I _C = -30mA; I _B = 0 | -40 | | V |
| V _{CE(sat)-1} | Collector-Emitter Saturation Voltage | I _C = -3A; I _B = -0.3A | | -1.0 | V |
| V _{CE(sat)-2} | Collector-Emitter Saturation Voltage | I _C = -10A; I _B = -2.5A | | -4.0 | V |
| V _{BE(on)-1} | Base-Emitter On Voltage | I _C = -3A; V _{CE} = -4V | | -1.6 | V |
| V _{BE(on)-2} | Base-Emitter On Voltage | I _C = -10A; V _{CE} = -4V | | -3.0 | V |
| I _{CEO} | Collector Cutoff Current | V _{CE} = -30V; I _B = 0 | | -0.7 | mA |
| Ices | Collector Cutoff Current | V _{CE} = -40V; V _{EB} = 0 | | -0.4 | mA |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -5V; I _C = 0 | | -1.0 | mA |
| h _{FE-1} | DC Current Gain | Ic= -1A; VcE= -4V | 40 | | |
| h _{FE-2} | DC Current Gain | I _C = -3A; V _{CE} = -4V | 20 | 100 | |
| f⊤ | Current-Gain—Bandwidth Product | I _C = -0.5A; V _{CE} = -10V; f _{test} = 1.0MHz | 3 | | MHz |

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