

isc Silicon PNP Power Transistor

2SA1788

DESCRIPTION

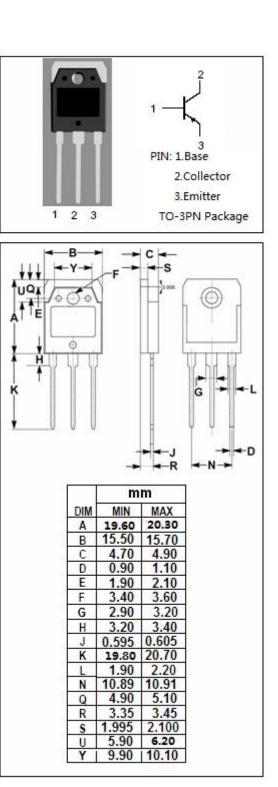
- High Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= -120V(Min)
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Designed for audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT | |
|------------------|---|---------|------|--|
| V _{CBO} | Collector-Base Voltage | -120 | V | |
| V _{CEO} | Collector-Emitter Voltage | -120 | V | |
| V _{EBO} | Emitter-Base Voltage | -5 | V | |
| lc | Collector Current-Continuous | -8 | A | |
| Pc | Collector Power Dissipation @ $T_c=25^{\circ}C$ | 80 | W | |
| TJ | T _J Junction Temperature | | °C | |
| T _{stg} | Storage Temperature Range | -55~150 | °C | |



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|-----------------------|--------------------------------------|--|------|------|------|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = -25mA ; I _B = 0 | -120 | | | V |
| V _{CE} (sat) | Collector-Emitter Saturation Voltage | I _C = -6A; I _B = -0.6A | | | -2.0 | V |
| V _{BE} (sat) | Base-Emitter Saturation Voltage | I _C = -6A; I _B = -0.6A | | | -2.5 | V |
| Ісво | Collector Cutoff Current | V _{CB} = -120V ; I _E = 0 | | | -10 | μA |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -5V; I _C = 0 | | | -10 | μA |
| h _{FE} | DC Current Gain | I _C = -1A ; V _{CE} = -5V | 60 | | 320 | |

h_{FE} Classifications

| D | E | F |
|--------|---------|---------|
| 60-120 | 100-200 | 160-320 |

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