

isc Silicon PNP Power Transistors

2SB536

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -120V(Min.)
- · Complement to Type 2SD381
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

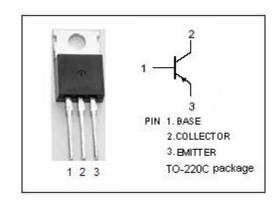


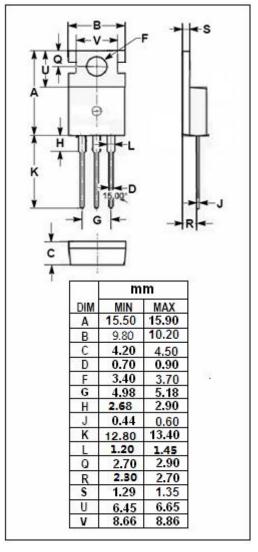
APPLICATIONS

- · Audio frequency power amplifier, low speed switching.
- Suitable for driver of 60~100 watts audio amplifier.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL | PARAMETER | VALUE | UNIT | |
|------------------|-------------------------------------|-------|---------------|--|
| V _{CBO} | Collector-Base Voltage | -130 | V | |
| Vceo | Collector-Emitter Voltage | -120 | V | |
| V_{EBO} | Emitter-Base Voltage | -5 | V | |
| Ic | Collector Current-Continuous | -1.5 | Α | |
| I _{CM} | Collector Current-Peak | -3.0 | А | |
| I _B | Base Current | -0.3 | А | |
| Pc | Collector Power Dissipation@Tc=25℃ | 20 | W | |
| | Collector Power Dissipation@Ta=25°C | 1.5 | | |
| TJ | Junction Temperature 150 | | ${\mathbb C}$ | |
| T _{stg} | Storage Temperature -55~150 | | $^{\circ}$ C | |







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|-----------------------|--------------------------------------|---|-----|------|------|------|
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -1A; I _B = -0.1A | | | -2.0 | V |
| V _{BE} (sat) | Base-Emitter Saturation Voltage | I _C = -1A; I _B = -0.1A | | | -1.5 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = -120V; I _E = 0 | | | -1.0 | μА |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -3V; I _C = 0 | | | -1.0 | μА |
| h _{FE-1} | DC Current Gain | I _C = -5mA ; V _{CE} = -5V | 25 | | | |
| h _{FE-2} | DC Current Gain | Ic= -0.3A ; V _{CE} = -5V | 40 | | 250 | |
| Сов | Output Capacitance | I _E = 0; V _{CB} = -10V; f= 0.1MHz | | 35 | | pF |
| fτ | Current-Gain—Bandwidth Product | Ic=-0.1A; V _{CE} = -5V | | 40 | | MHz |

♦ h_{FE} Classifications

| N | М | ٢ | К |
|-------|--------|--------|---------|
| 40-80 | 60-120 | 80-160 | 120-250 |

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