

isc Silicon PNP Power Transistors

2SB541

DESCRIPTION

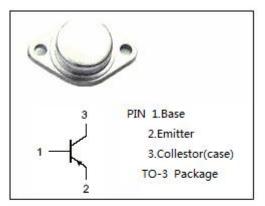
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -120V(Min)
- High Power Dissipation-
- : P_C= 100W(Max)@T_C=25℃
- Complement to Type 2SD388
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

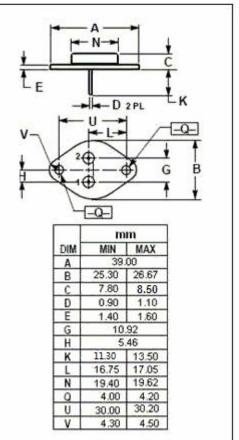
APPLICATIONS

- Designed for audio frequency power amplifier applications.
- Suitable for output stage of 40~50 watts audio amplifiers.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|---|---------|------|
| V _{CBO} | Collector-Base Voltage | -110 | V |
| V _{CEO} | Collector-Emitter Voltage | -100 | V |
| V _{EBO} | Emitter-Base Voltage | -6 | V |
| Ιc | Collector Current-Continuous | -8 | A |
| I _{CM} | Collector Current-Pulse | -12 | А |
| Pc | Collector Power Dissipation @T _C =25℃ | | |
| TJ | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -65~150 | °C |







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | МАХ | UNIT |
|-----------------------|--------------------------------------|---|-----|------|------|------|
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -5A; I _B = -1A | | | -2.0 | V |
| V _{BE} (sat) | Base-Emitter Saturation Voltage | I _C = -5A; I _B = -1A | | | -2.0 | V |
| I _{СВО} | Collector Cutoff Current | V _{CB} = -100V; I _E = 0 | | | -0.1 | mA |
| Іево | Emitter Cutoff Current | V _{EB} = -5V; I _C = 0 | | | -0.1 | mA |
| h _{FE-1} | DC Current Gain | I _C = -1A; V _{CE} = -5V | 40 | | 200 | |
| h _{FE-2} | DC Current Gain | I _C = -4A; V _{CE} = -5V | 20 | | | |
| Сов | Output Capacitance | I _E = 0; V _{CB} = -10V; f= 1MHz | | 320 | | pF |
| f⊤ | Current-Gain—Bandwidth Product | I _C = -0.2A; V _{CE} = -10V | | 7 | | MHz |

h_{FE-1} Classifications

| S | R | Q | |
|-------|--------|---------|--|
| 40-80 | 60-120 | 100-200 | |

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