

isc Silicon PNP Power Transistor
2SB595
DESCRIPTION

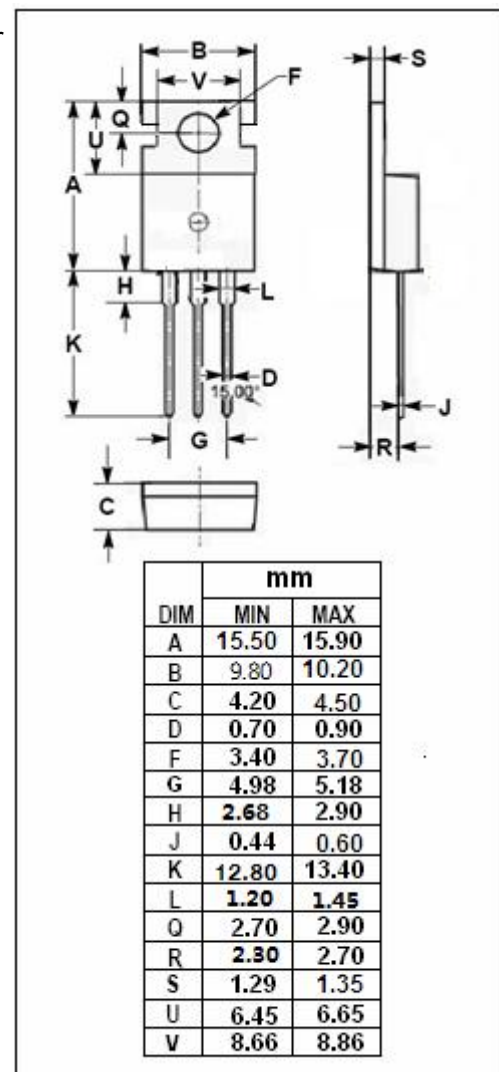
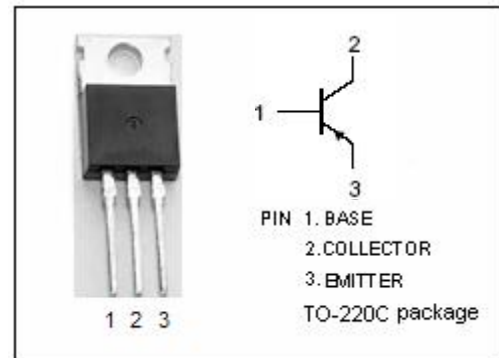
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -2.0(V)(Max) @ I_C = -4A$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -100V(Min)$
- Complement to Type 2SD525
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications.
- Recommended for 30W high-fidelity audio frequency amplifier output stage.

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ C$)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|------------|
| V_{CBO} | Collector-Base Voltage | -100 | V |
| V_{CEO} | Collector-Emitter Voltage | -100 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current-Continuous | -5 | A |
| I_E | Emitter Current-Continuous | 5 | A |
| I_B | Base Current-Continuous | -4 | A |
| P_C | Total Power Dissipation @ $T_C = 25^\circ C$ | 40 | W |
| T_J | Junction Temperature | 150 | $^\circ C$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ C$ |



isc Silicon PNP Power Transistor**2SB595****ELECTRICAL CHARACTERISTICS**T_c=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--|------|------|------|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = -30mA; I _B = 0 | -100 | | | V |
| V _{(BR)EBO} | Emitter-Base Breakdown Voltage | I _E = -10mA; I _C = 0 | -5 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -4A; I _B = -0.4A | | | -2.0 | V |
| V _{BE(on)} | Base-Emitter On Voltage | I _C = -4A; V _{CE} = -5V | | | -1.5 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = -100V; I _E = 0 | | | -0.1 | mA |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -5V; I _C = 0 | | | -1.0 | mA |
| h _{FE-1} | DC Current Gain | I _C = -1A; V _{CE} = -5V | 40 | | 240 | |
| h _{FE-2} | DC Current Gain | I _C = -4A; V _{CE} = -5V | 20 | | | |

◆ **h_{FE-1} Classifications**

| R | O | Y |
|-------|--------|---------|
| 40-80 | 70-140 | 120-240 |

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