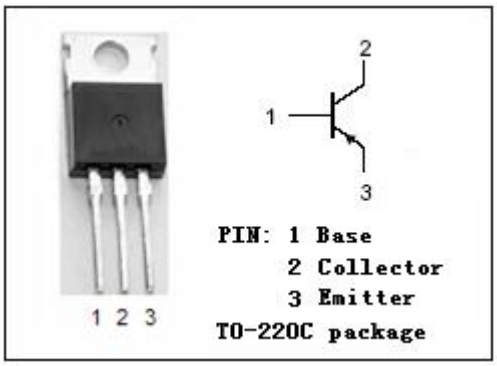
# *isc* Silicon PNP Power Transistor — 2SB995

## DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -100V(Min)
- Low Collector Saturation Voltage-
  : $V_{CE(sat)}$= −2.0V(Max)@ $I_C$= -4A
- Complement to Type 2SD1355
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

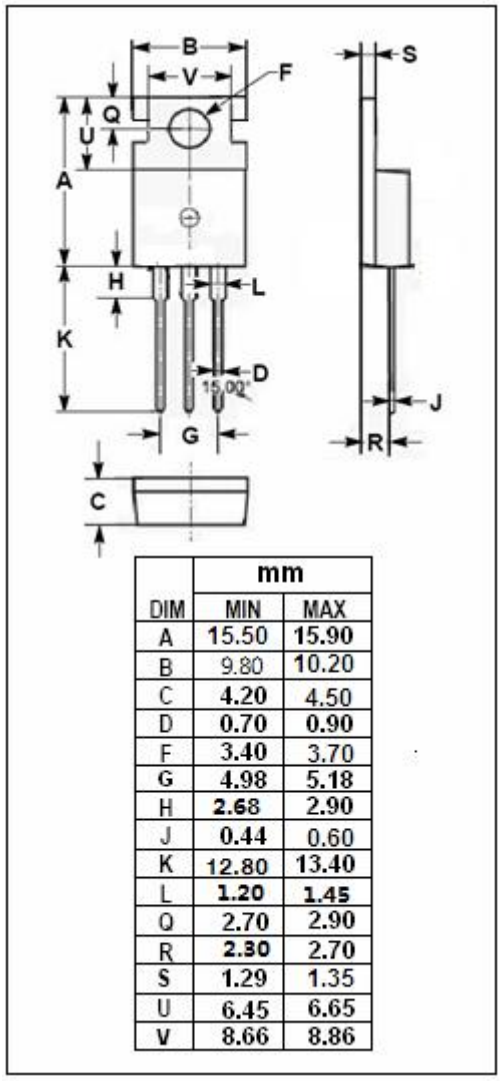



## APPLICATIONS

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

## ABSOLUTE MAXIMUM RATINGS($T_a$=25℃)

| 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 |
| $I_B$ | Base Current-Continuous | -0.5 | A |
| $P_C$ | Collector Power Dissipation @$T_C$=25℃ | 40 | W |
| $T_J$ | Junction Temperature | 150 | ℃ |
| $T_{stg}$ | Storage Temperature | -55~150 | ℃ |




| DIM | mm MIN | MAX |
|---|---|---|
| A | 15.50 | 15.90 |
| B | 9.80 | 10.20 |
| C | 4.20 | 4.50 |
| D | 0.70 | 0.90 |
| F | 3.40 | 3.70 |
| G | 4.98 | 5.18 |
| H | 2.68 | 2.90 |
| J | 0.44 | 0.60 |
| K | 12.80 | 13.40 |
| L | 1.20 | 1.45 |
| Q | 2.70 | 2.90 |
| R | 2.30 | 2.70 |
| S | 1.29 | 1.35 |
| U | 6.45 | 6.65 |
| V | 8.66 | 8.86 |

# isc Silicon PNP Power Transistor 2SB995

## ELECTRICAL CHARACTERISTICS

**Tj=25℃ 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 |
| $V_{CE(sat)}$ | 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 | | | -100 | μA |
| $I_{EBO}$ | 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 |