

SPTECH Silicon NPN Power Transistor

2SD884

DESCRIPTION

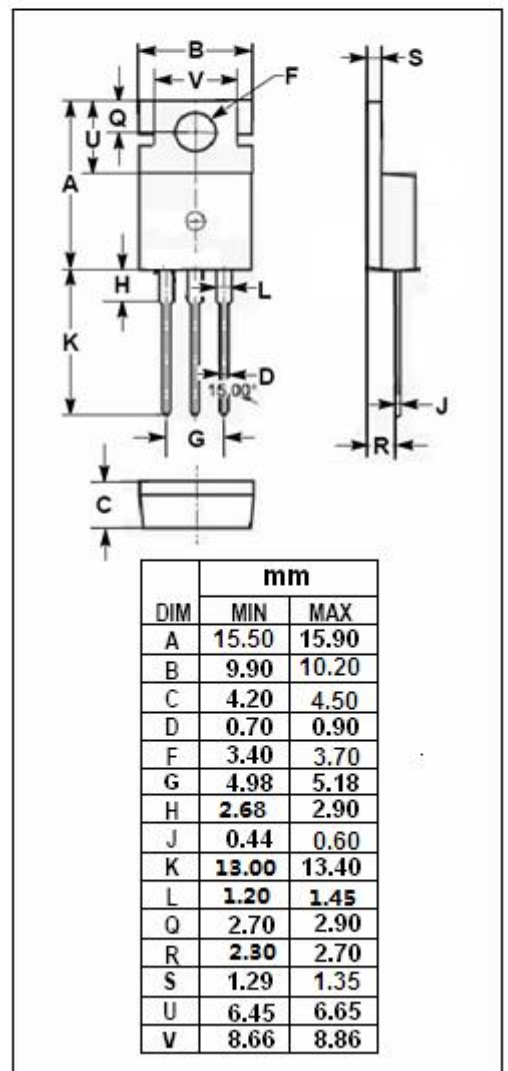
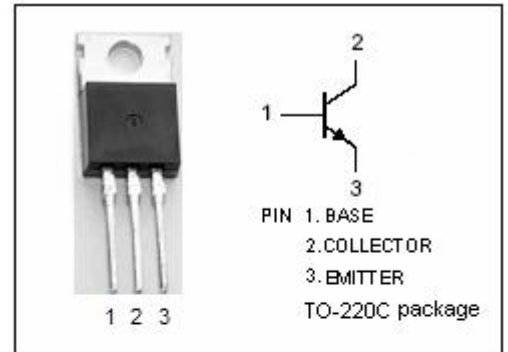
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 200V(\text{Min})$
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = 1.0V(\text{Max}) @ I_C = 0.5A$
- High speed switching

APPLICATIONS

- Designed for use in audio frequency power amplifier applications

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

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|--|---------|------------------|
| V_{CBO} | Collector-Base Voltage | 330 | V |
| V_{CEO} | Collector-Emitter Voltage | 200 | V |
| V_{EBO} | Emitter-Base Voltage | 6 | V |
| I_C | Collector Current-Continuous | 7 | A |
| I_{CP} | Collector Current-Peak | 10 | A |
| P_C | Collector Power Dissipation @ $T_C=25^\circ\text{C}$ | 40 | W |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ\text{C}$ |



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 = 5A; I _B =0.5A | | | 1.0 | V |
| V _{BE(sat)} | Base-Emitter Saturation Voltage | I _C = 5A; I _B =0.5A | | | 1.2 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = 330V ; I _E = 0 | | | 100 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = 6V ; I _C = 0 | | | 1 | mA |
| h _{FE} | DC Current Gain | I _C = 5A ; V _{CE} = 4V | 10 | | 45 | |
| t _f | Fall Time | I _C = 5A , I _{B1} = I _{B2} = 800mA R _B =0.5 Ω , -V _{EB} =5V | | | 0.75 | μ s |

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