

isc Silicon NPN Power Transistor**2SC4508****DESCRIPTION**

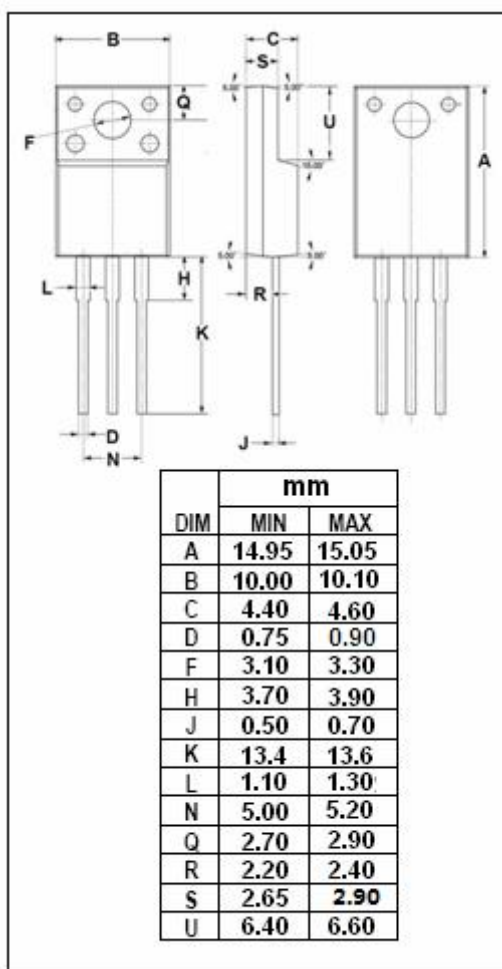
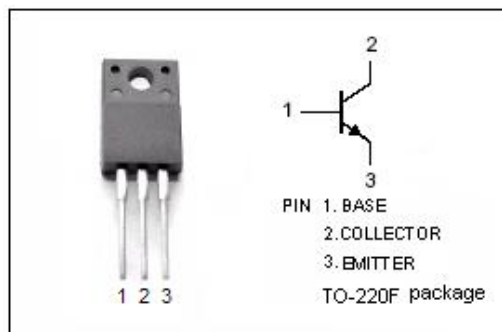
- Fast switching speed
- Silicon NPN planar diffused planar transistor
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Audio temperature compensation and general purpose

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

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|--------------------|
| V_{CBO} | Collector-Base Voltage | 500 | V |
| V_{CEO} | Collector-Emitter Voltage | 400 | V |
| V_{EBO} | Emitter-Base Voltage | 7 | V |
| I_C | Collector Current-Continuous | 10 | A |
| I_B | Base Current-Continuous | 2 | 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 | -55~150 | $^{\circ}\text{C}$ |



isc Silicon NPN Power Transistor**2SC4508****ELECTRICAL CHARACTERISTICS****T_j=25°C unless otherwise specified**

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--|-----|------|-----|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = 25mA; I _B = 0 | 400 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = 4A; I _B = 0.8A | | | 0.8 | V |
| V _{BE(sat)} | Collector-Emitter Saturation Voltage | I _C = 4A; I _B = 0.8A | | | 1.5 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = 500V; I _E = 0 | | | 100 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = 6V; I _C = 0 | | | 100 | μ A |
| h _{FE-1} | DC Current Gain | I _C = 1A; V _{CE} = 5V | 25 | | 65 | |
| h _{FE-2} | DC Current Gain | I _C = 4A; V _{CE} = 5V | 20 | | | |

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