

isc Silicon NPN Power Transistor

2SC4288

DESCRIPTION

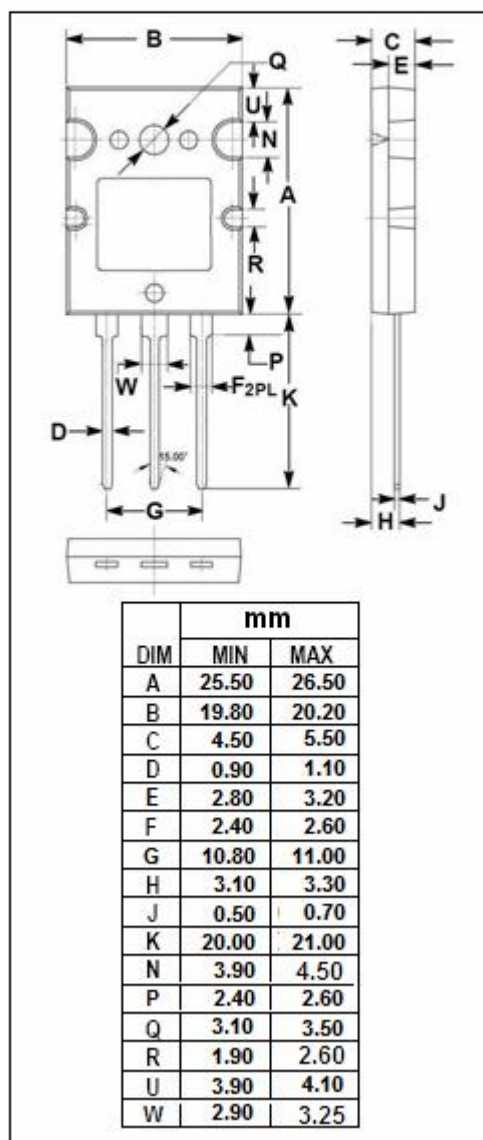
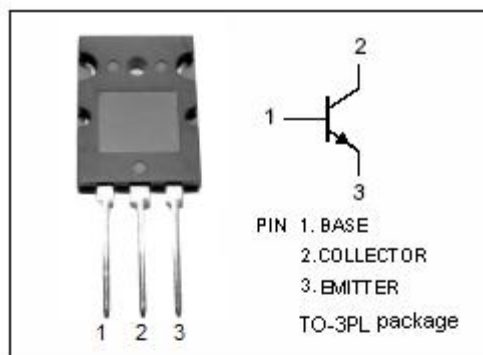
- High Switching Speed
- High Breakdown Voltage-
: $V_{(BR)CBO} = 1500V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for horizontal deflection output applications.

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

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|------------------|
| V_{CBO} | Collector-Base Voltage | 1500 | V |
| V_{CEO} | Collector-Emitter Voltage | 600 | V |
| V_{EBO} | Emitter-Base Voltage | 5 | V |
| I_C | Collector Current-Continuous | 12 | A |
| I_{CM} | Collector Current-Pulse | 20 | A |
| P_C | Collector Power Dissipation @ $T_C = 25^\circ\text{C}$ | 200 | W |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ\text{C}$ |



isc Silicon NPN Power Transistor**2SC4288****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|-----------------------|--------------------------------------|--|-----|------|-----|------|
| V _{CEQ(SUS)} | Collector-Emitter Sustaining Voltage | I _C = 20mA; I _B = 0 | 600 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = 10A; I _B =2.5A | | | 5.0 | V |
| V _{BE(sat)} | Base-Emitter Saturation Voltage | I _C = 10A; I _B =2.5A | | | 2.0 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = 1500V; I _E = 0 | | | 100 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = 5V; I _C = 0 | | | 100 | mA |
| h _{FE} | DC Current Gain | I _C = 3A; V _{CE} = 5V | 8 | | | |
| t _{stg} | Storage Time | I _C = 10A, I _{B1} =1.8A; I _{B2} = -3.6A | | | 3.0 | μ s |
| t _f | Fall Time | | | | 0.2 | μ s |

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