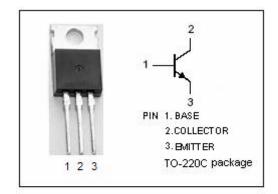


isc Silicon NPN Power Transistor

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DESCRIPTION

- · Silicon NPN tripe diffused mesa
- Collector-Emitter Breakdown Voltage-:V_{(BR)CEO}= 60(V)(Min.)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

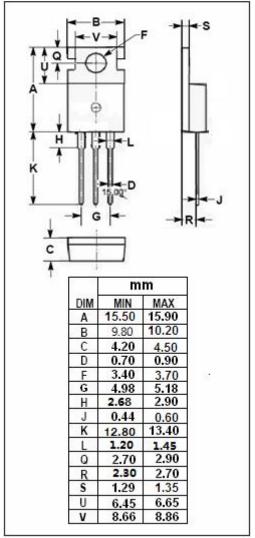


APPLICATIONS

· General and industrial purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL | PARAMETER | VALUE | UNIT | |
|------------------|---|---------|--------------|--|
| V _{CBO} | Collector-Base Voltage | 80 | V | |
| Vceo | Collector-Emitter Voltage | 60 | V | |
| V_{EBO} | Emitter-Base Voltage | 6 | V | |
| Ic | Collector Current-Continuous | 6 | Α | |
| Pc | Total Power Dissipation @ T _C =25℃ | 40 | W | |
| TJ | Junction Temperature | 150 | $^{\circ}$ C | |
| T _{stg} | Storage Temperature Range | -55~150 | °C | |





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|-----------------------|--------------------------------------|---|-----|------|-----|------|
| V _(BR) CEO | Collector-Emitter Breakdown Voltage | I _C = 25mA; I _B = 0 | 60 | | | V |
| V _{CE} (sat) | Collector-Emitter Saturation Voltage | I _C = 3A; I _B = 300mA | | | 1.0 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = 80V; I _E = 0 | | | 1 | mA |
| І _{ЕВО} | Emitter Cutoff Current | V _{EB} = 6V; I _C = 0 | | | 1 | mA |
| h _{FE} | DC Current Gain | I _C = 1A; V _{CE} = 4V | 40 | | | |
| fτ | Current-Gain—Bandwidth Product | I _E = 500mA; V _{CE} = 12V | | 10 | | MHz |



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