

isc Silicon PNP Power Transistors

DESCRIPTION

- Low Collector-Emitter Saturation Voltage
- Fast Switching Speeds
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

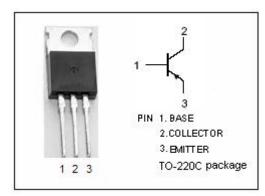
 Designed for general pourpose power amplification and switching such as output or driver stages in applications such as switching regulators, converters and power amplifier.

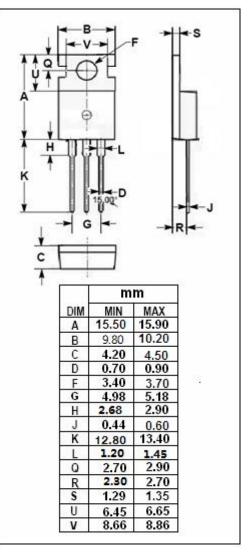
ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}$ C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|--|---------|---------------|
| V _{CEO} | Collector-Emitter Voltage | -60 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| Ic | Collector Current-Continuous | -10 | А |
| Ісм | Collector Current-Peak | -20 | А |
| Pc | Collector Power Dissipation @T _C =25°C | 70 | W |
| Tj | Junction Temperature | -55~150 | $^{\circ}$ |
| T _{stg} | Storage Temperature Range | -55~150 | ${\mathbb C}$ |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------------|--|-----|------|
| Rth j-c | Thermal Resistance, Junction to Case | 1.8 | °C/W |
| R _{th j-a} | j-a Thermal Resistance,Junction to Ambient | | °C/W |







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D45H8

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP | MAX | UNIT |
|----------------------|-------------------------------------|---|-----|-----|------|------|
| V _{CE(sat)} | Collector-EmitterSaturation Voltage | I _C = -8A ;I _B = -0.4 A | | | -1.0 | V |
| V _{BE(sat)} | Base-Emitter Saturation Voltage | I _C = -8A ;I _B = -0.8 A | | | -1.5 | V |
| I _{CES} | Collector Cutoff Current | V _{CE} =Rated V _{CEO} ; V _{BE} = 0 | | | -10 | μА |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -5V; I _C = 0 | | | -10 | μА |
| h _{FE-1} | DC Current Gain | I _C = -2A ; V _{CE} = -1V | 60 | | | |
| h _{FE-2} | DC Current Gain | I _C = -4A; V _{CE} = -1V | 40 | | | |
| f⊤ | Current-Gain—Bandwidth Product | Ic=-0.5A;Vc==-10V; | | 40 | | MHz |



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