SR20120CT

SCHOTTKY BARRIER RECTIFIER

FEATURES:

- Plastic package Underwriters Laboratory
 Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Metal silicon junction
 Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C /10 seconds, 0.25"(6.35mm) from case

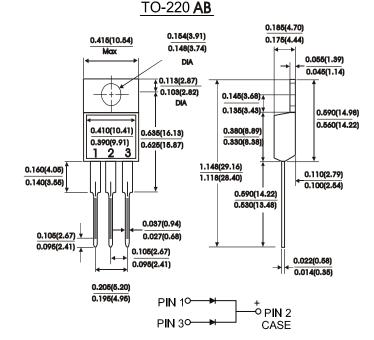
MECHANICAL DATA

Case : JEDEC TO-220AB molded plastic Terminals : Leads solderable per MIL-STD-750

Method 2026

Polarity : As marked Mounting Position : Any

Mounting Torque 5 in - lbs.max. Weight: 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase half wave, 60 Hz resistive or inductive load.

For capacitive load, derate current by 20%.

| Characteristic | Symbol | \$R20120CT | Units |
|---|---------------------|------------|----------------------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 120 | Volts |
| Maximum RMS voltage | V _{RMS} | 85 | Volts |
| Maximum DC blocking voltage | V_{DC} | 120 | Volts |
| Maximum average forward rectified current at $TC=100^{\circ}C$ (Per Pak) | I _(AV) | 20 | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg) | I _{FSM} | 150 | Amps |
| Maximum instantaneous forward voltage (Per leg) (NOTE 2) IF = 10A | V _F | 0.90 | Volts |
| $\begin{array}{ll} \mbox{Maximum instantaneous reverse} \\ \mbox{current at rated DC blocking} \\ \mbox{voltage(Per leg) (NOTE 2)} \end{array} \qquad \begin{array}{ll} \mbox{Tc} = 25^{\circ}\!$ | 1- | 1.5 50 | mA |
| Typical thermal resistance(Per leg)(NOTE 1) | R _{th} -JC | 4.0 | °C/W |
| Operating temperature range | Тј | -65to+125 | $^{\circ}\mathbb{C}$ |
| Storage temperature range | T _{Stg} | -65to+150 | $^{\circ}\mathbb{C}$ |

NOTES:

(1)Thermal resistance from junction to case

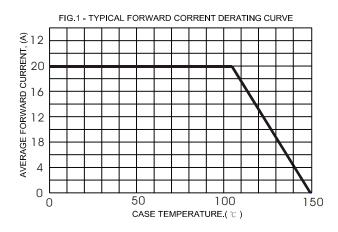
(2) Pulse test: 300 us pulse width, 1% duty cycle

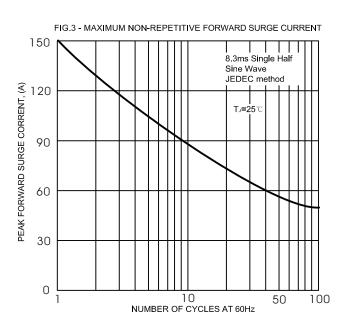
(3)Marking: $\underline{SR20120CT} = \underline{SR20120}$ (Without Marking "CT")

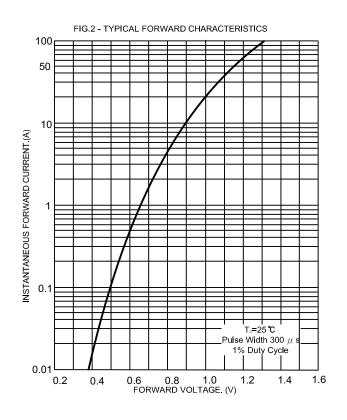
Symbol Marking

SR20120CT

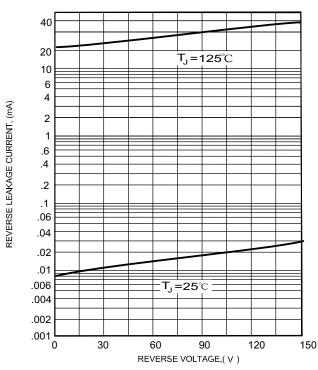
RATINGS AND CHARACTERISTIC CURVES











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