SCHOTTKY BARRIER RECTIFIERS

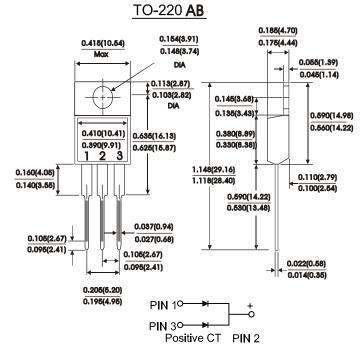
FEATURES:

- 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 Teminals: Leads solderable per MIL-STD-750

Method 2026 Polarity: As marked **Mounting Postition: Any** Mounting Torque 5 In - Ibs.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%.

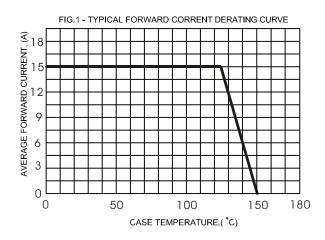
| Characteristic | Symbol | SR 1520CT | SR 1530CT | SR 1535CT | SR 1540CT | SR 1545CT | SR 1550CT | SR 1560CT | Units |
|--|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------------|
| Maximum recurrent peak reverse voltage | V _{RRM} | 20 | 30 | 35 | 40 | 45 | 50 | 60 | Volts |
| Maximum RMS voltage | V _{RMS} | 14 | 21 | 25 | 28 | 32 | 35 | 42 | Volts |
| Maximum DC blocking voltage | V _{DC} | 20 | 30 | 35 | 40 | 45 | 50 | 60 | Volts |
| Maximum average forward rectified current at $Tc=125^{\circ}\!$ | lo | 15 | | | | | | | 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) $IF = 7.5A$ | V _F | 0.63 0.75 | | | | | | Volts | |
| $\begin{array}{c} \mbox{Maximum instantaneous reverse} \\ \mbox{current at rated DC blocking} \\ \mbox{voltage (Per leg)(NOTE 2)} \end{array} \qquad \begin{array}{c} \mbox{Tc=25°C} \\ \mbox{Tc=125°C} \end{array}$ | 1 1 | 0.5 50 | | | | | | mA | |
| Typical thermal resistance(Per leg)(NOTE 1) | R _{th} -JC | 3.0 | | | | | | | °C/W |
| Operating temperature range | TJ | -65to+150 | | | | | | | $^{\circ}\!\mathbb{C}$ |
| Storage temperature range | T _{Stg} | -65to+175 | | | | | | | $^{\circ}\!\mathbb{C}$ |

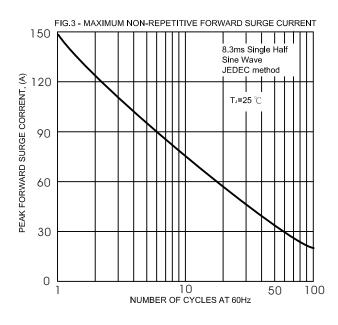
NOTES:

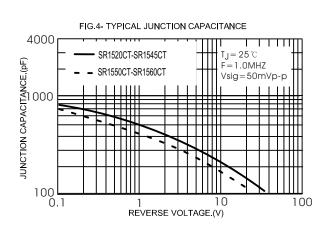
(1)Thermal resistance from junction to case (2) Pulse test: 300 us pulse width, 1% duty cycle

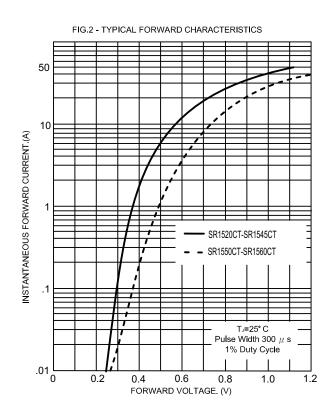
(3)Marking: SR1520CT = SR1520 (Without Marking "CT")
Symbol Marking

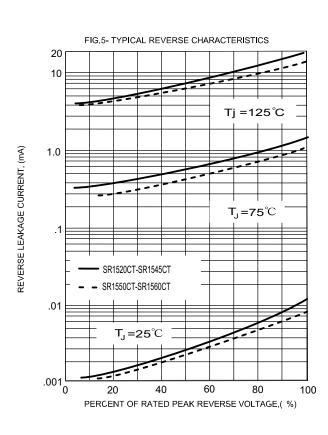
RATINGS AND CHARACTERISTIC CURVES











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