SR15100CT

SCHOTTKY BARRIER RECTIFIER

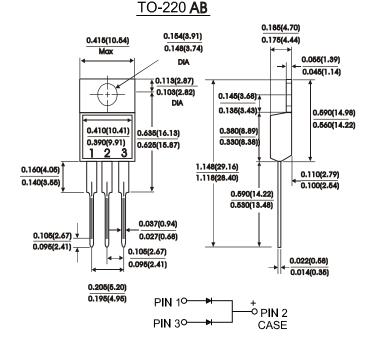
FEATURES:

- 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
Teminals: Leads solderable per Mil-STD-750

Method 2026
Polarity: As marked
Mounting Position: 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 $^{\circ}$ 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	\$R15100CT	Units
Maximum recurrent peak reverse voltage	V _{RRM}	100	Volts
Maximum RMS voltage	V _{RMS}	70	Volts
Maximum DC blocking voltage	V _{DC}	100	Volts
Maximum average forward rectified current at Tc=90°C (Per Pak)	I _(AV)	15	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	100	Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2) IF=7.5A	V _F	0.81	Volts
$\begin{array}{ll} \mbox{Maximum instantaneous reverse} \\ \mbox{current at rated DC blocking} \\ \mbox{voltage(Per leg)(NOTE 2)} \end{array} \qquad \begin{array}{ll} \mbox{Tc} = 25^{\circ}\mbox{C} \\ \mbox{Tc} = 125^{\circ}\mbox{C} \end{array}$	IR	0.5 50.0	mA
Typical thermal resistance(Per leg)(NOTE 1)	R _{th} -JC	5.0	°C/W
Operating temperature range	Tj	-65 to+150	°C
Storage temperature range	T _{Stg}	-65 to+150	°C

NOTES:

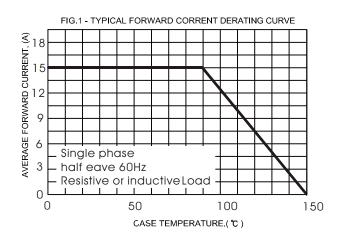
(1)Thermal resistance from junction to case (2)Pulse test: 300 us pulse width, 1% duty cycle

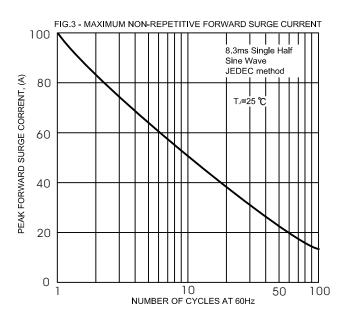
(3) Marking: SR15100CT = SR15100 (Without Marking "CT")

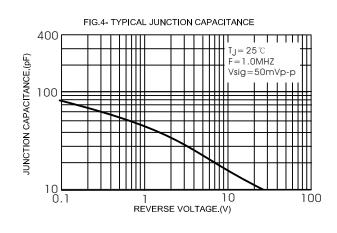
 $\frac{3(10100C)}{\text{Symbol}} = \frac{3(10100)}{\text{Marking}}$

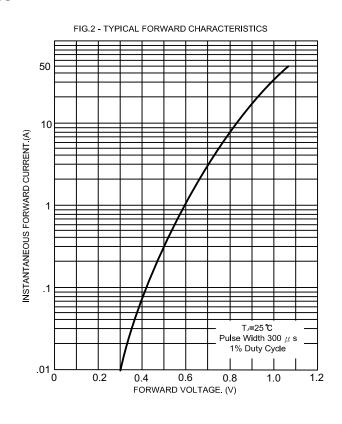
SR15100CT

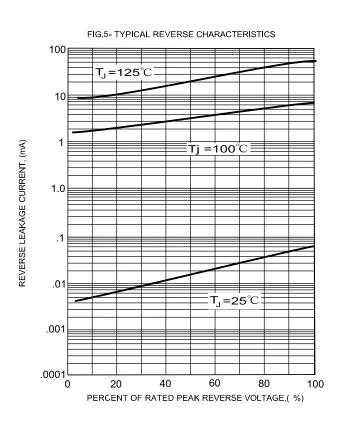
RATINGS AND CHARACTERISTIC CURVES











SR15100CT

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