



# SR1502 - SR1504

15.0 AMPS. Schottky Barrier Rectifiers

**R-6** 

### И

### **Features**

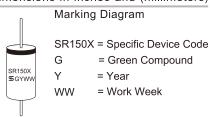
- ♦ Low power loss, high efficiency.
- High current capability, Low VF.
- → High reliability
- ♦ High surge current capability.
- ♦ Epitaxial construction.
- ♦ Guard-ring for transient protection.
- ♦ For use as Bypass diode in Solar application.
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

### **Mechanical Data**

- ♦ Epoxy: UL 94V-O rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode.
- High temperature soldering guaranteed: 260oC/10 seconds /.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 1.10 grams

## .280 (7.2) .270 (6.8) DIA. 1.0 (25.4) MIN. .360 (9.1) .340 (8.6) .052 (1.3) .048 (1.2) DIA.

#### Dimensions in inches and (millimeters)



Version: C10

## 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%

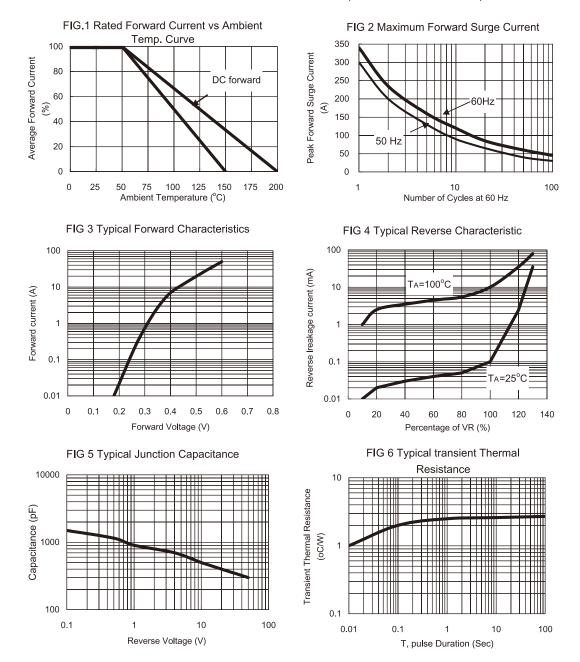
Type Number	Symbol	SR1502	SR1503	SR1504	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	٧
Maximum RMS Voltage	VRMS	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current .R-load @T <sub>A</sub> = 50 °C (Note 2)	lf(AV)	15			Α
Repetitive Peak Forward Current f > 15 Hz (Note 2)	İFRM	60			Α
Peak Forward Surge Current, 50/60 Hz Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	IFSM	300 / 340			Α
Maximum Instantaneous Forward Voltage @ 5.0A @ T <sub>A</sub> =25 °C @ 15.0A	VF	0.45 0.55			V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C (Note 1) at Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	lr	500 20			uA mA
Rating for fusing t < 10ms @ T <sub>A</sub> =25 °C	l <sup>2</sup> t	390			A <sup>2</sup> S
Maximuml Thermal Resistance	Røja Røjl	25 2.5			°C/W
Junction Temperature Range - in DC forward mode	Тл	-50 to +150 <=200			°C
Storage Temperature Range	Tstg	-50 to +175			°С

Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

2. Valid, if leads are kept at ambient temperature at a distance of 10 mm from case.



## RATINGS AND CHARACTERISTIC CURVES (SR1502 THRU SR1504)



Version: C10