

## **Features**

- $\diamond$  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.

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### **Mechanical Data**

- ♦ Cases: Molded plastic
- ♦ 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: 1.1 gram

# **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^\circ\!\!\!\!\!^\circ C$  ambient temperature unless otherwise specified.

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

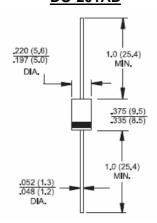
For capacitive load, derate current by 20%

Type Number	Symbol	SR1202	SR1203	SR1204	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	V
Maximum Average Forward Rectified Current .R-load @TA = $50^{\circ}$ C (Note 1)	I <sub>(AV)</sub>	12			А
Repetitive Peak Forward Current f > 15 Hz (Note 1)	I <sub>FRM</sub>	55			А
Peak Forward Surge Current, 50/60 Hz Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	280 / 320			А
Maximum Instantaneous Forward Voltage @ 5.0A @ TA=25℃ @ 12.0A	V <sub>F</sub>	0.45 0.55			V
Maximum DC Reverse Current @ T <sub>A</sub> =25 $^\circ$ C at Rated DC Blocking Voltage @ TA=100 $^\circ$ C	I <sub>R</sub>	500 20			uA mA
Rating for fusing t < 10ms @ TA=25 $^{\circ}$ C	l <sup>2</sup> t	390			A <sup>2</sup> S
Maximuml Thermal Resistance	R <sub>øja</sub> Røjl	24 3			°C/W
Junction Temperature Range - in DC forward mode	TJ	-50 to +150 <=200			°C
Storage Temperature Range	T <sub>STG</sub>	-50 to +175		°C	

Notes: 1. Valid, if leads are kept at ambient temperature at a distance of 10 mm from case.

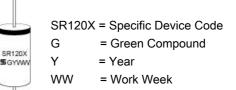
# SR1202 - SR1204

### 12.0 AMP. Schottky Barrier Rectifiers DO-201AD



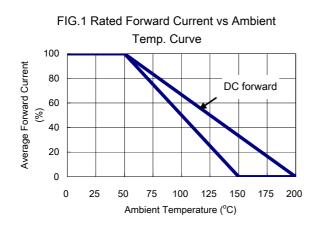
### Dimensions in inches and (millimeters)

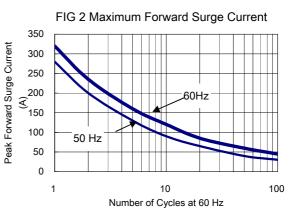
Marking Diagram

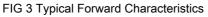


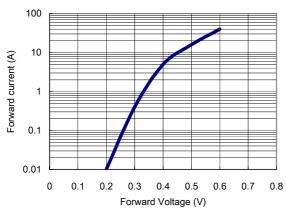


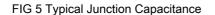
## RATINGS AND CHARACTERISTIC CURVES (SR1202 THRU SR1204)











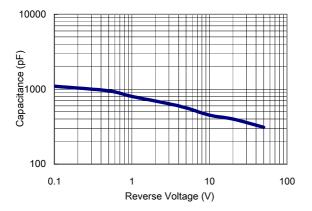


FIG 4 Typical Reverse Characteristics

