

# SR102 - SR106

## HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

## NOT RECOMMENDED FOR NEW DESIGN, USE SB1X0 SERIES

Dim

Α

В

С

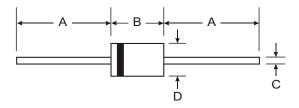
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# High Current Capability and Low Forward Drop

High Surge Capacity

**Features** 

- Guard Ring for Transient Protection
- Low Power Loss, High Efficiency



DO-41

Min

25.4

4.1

0.71

2.0

All Dimensions in mm

Max

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5.2

0.86

2.7

#### **Mechanical Data**

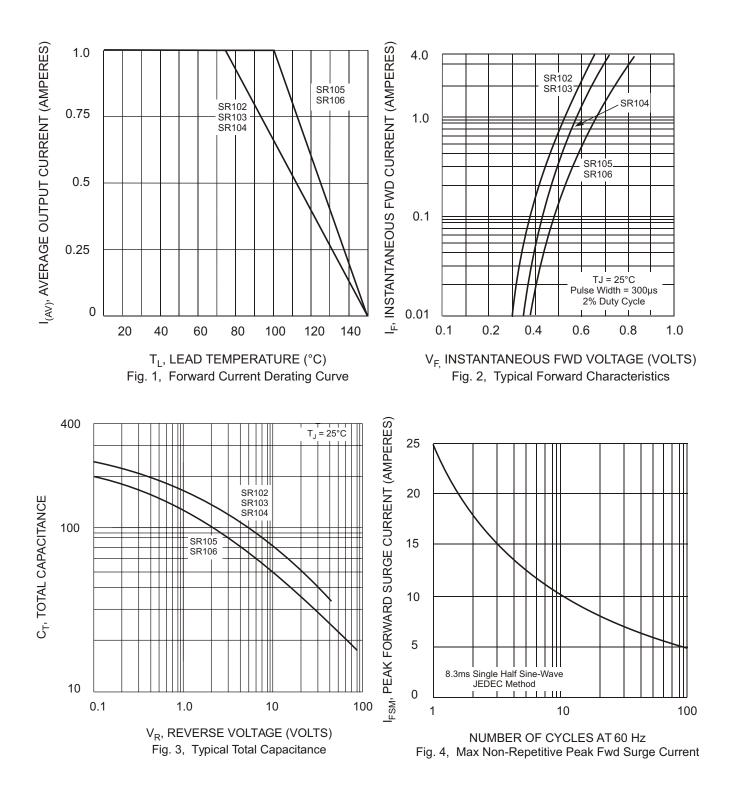
- Case: DO-41, Molded Plastic
- Plastic Material: UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Axial lead, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Weight: 0.35 grams (approx.)

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	SR102	SR103	SR104	SR105	SR106	Unit
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage		V <sub>RSM</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current @ Lead Temperature (TL) measured 9.5mm lead length	@ T <sub>L</sub> = 75°C @ T <sub>L</sub> = 100°C		1.0		1.0		A	
Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	25					A
Maximum Forward Voltage	@ 1.0A	VF	0.	55	0.60	0.70		V
Maximum Average Reverse Current at Peak Reverse Voltage	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	l <sub>R</sub> I <sub>R</sub>	1.0 10			mA		
Typical Thermal Resistance (Note 1)		R <sub>0JL</sub>	15					K/W
Typical Total Capacitance (Note 2)		CT	110		80		pF	
Storage and Operating Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-65 to +150				°C	

Notes: 1. Thermal Resistance from Junction to Ambient with Vertical PC Board Mounting, 1.27mm Lead Length. 2. Measured at 1.0MHz and applied reverse voltage of 4.0V.



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