

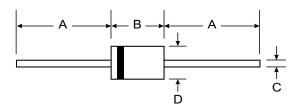
### SR302 - SR306

### HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

#### **Features**

- Low Forward Drop
- High Surge Current Capacity
- Guard Ring for Transient Protection
- Low Power Loss, High Efficiency

# NOT RECOMMENDED FOR NEW DESIGNS, USE SB3X0 SERIES



### **Mechanical Data**

 Case: DO-201AD, Molded Plastic
Plastic Package: 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 bandWeight: 1.2 grams (approx.)

DO-201AD						
Dim	Min	Max				
Α	25.40	_				
В	7.20	9.50				
С	1.20	1.30				
D	4.80	5.30				
All Dimensions in mm						

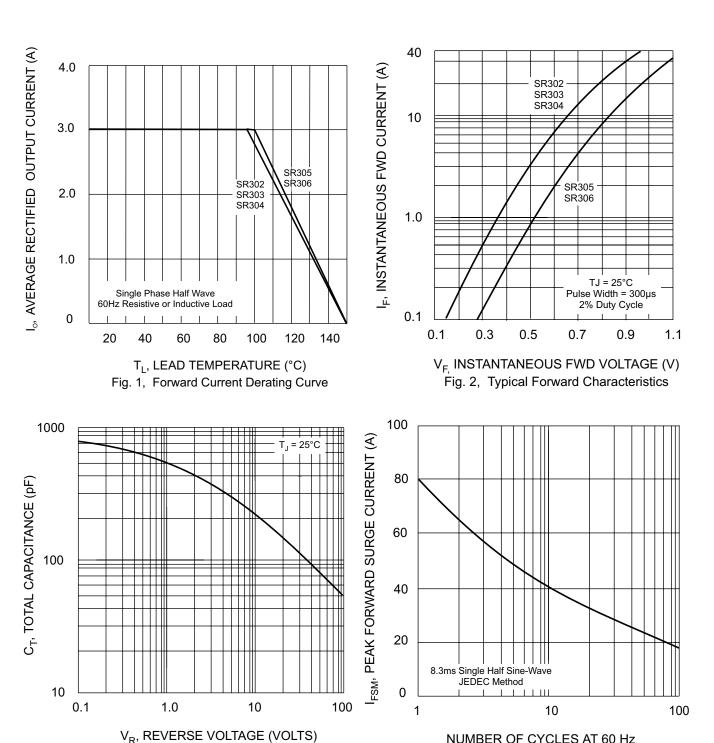
### Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

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

Characteristic		Symbol	SR302	SR303	SR304	SR305	SR306	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	20	30	40	50	60	V
RMS Reverse Voltage		V <sub>R(RMS)</sub>	14	21	28	35	42	٧
Average Rectified Output Current (Note 1)	T <sub>L</sub> = 95°C T <sub>L</sub> = 100°C	Io	3.0			3.0		А
Non-repetitive Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	80					Α
Forward Voltage	@I <sub>F</sub> = 3.0A	VF	0.55			0.	72	٧
Peak Reverse Current at Rated DC Blocking Voltage	@ T <sub>A</sub> = 25°C @ T <sub>A</sub> = 100°C	I <sub>R</sub>	1.0 20				mA	
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	20					°C/W
Typical Total Capacitance (Note 3)		Ст	300					pF
Operating and Storage Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-65 to +150					°C

Notes:

- 1. Lead Temperature  $T_{L}$  measured 9.5mm lead length from body.
- 2. Thermal Resistance from Junction to Ambient Vertical PC Board Mounting, 1.27mm Lead Length.
- 3. Measured at 1.0MHz and applied reverse voltage of 4.0V.



NUMBER OF CYCLES AT 60 Hz Fig. 4, Max Non-Repetitive Peak Fwd Surge Current

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Fig. 3, Typical Total Capacitance