

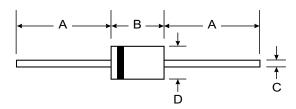
SR302 - SR306

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

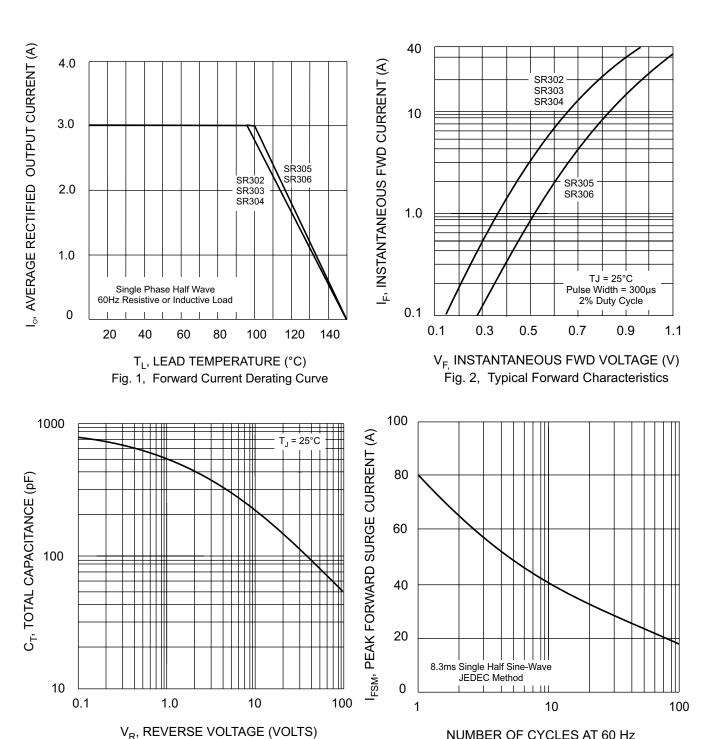
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SR302	SR303	SR304	SR305	SR306	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	٧
Average Rectified Output Current (Note 1) $T_L = 95$ $T_L = 100$		3.0			3.0		Α
Non-repetitive Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)		80					Α
Forward Voltage @I _F = 3.	OA V _F	0.55			0.72		V
		1.0 20					mA
Typical Thermal Resistance (Note 2)		20					°C/W
Typical Total Capacitance (Note 3)		300					pF
Operating and Storage Temperature Range		-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