

# SR302 - SR306

## HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

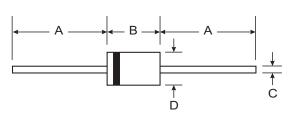
NOT RECOMMENDED FOR NEW DESIGNS, USE SB3X0 SERIES

#### Features

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

## **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 band
- Weight: 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 @ 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%.

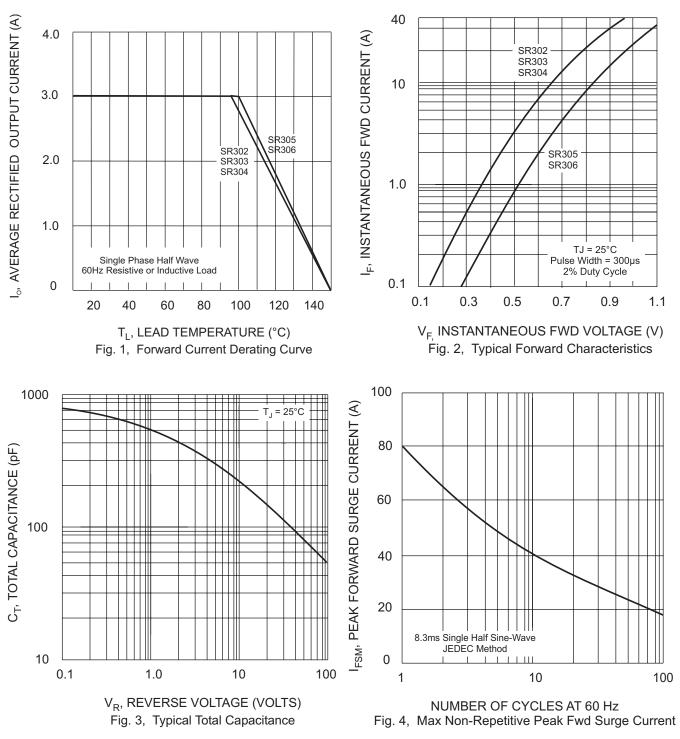
Characteristic		Symbol	SR302	SR303	SR304	SR305	SR306	Unit
Peak Repetitive Reverse Voltage		V <sub>RRM</sub>						
Working Peak Reverse Voltage		V <sub>RWM</sub>	20	30	40	50	60	V
DC Blocking Voltage		VR						
RMS Reverse Voltage		V <sub>R(RMS)</sub>	14	21	28	35	42	V
	$T_L = 95^{\circ}C$ $T_L = 100^{\circ}C$	lo	3.0			3.0		Α
Non-repetitive Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	80					А
Forward Voltage	$@I_{F} = 3.0A$	VF	0.55 0.72		72	V		
	$\begin{array}{l} T_A = 25^{\circ}C \\ T_A = 100^{\circ}C \end{array}$	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		TJ, TSTG	-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.





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