

# SR302 - SR306

### HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

NOT RECOMMENDED FOR

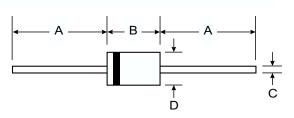
**NEW DESIGNS, USE SB3X0 SERIES** 

#### 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

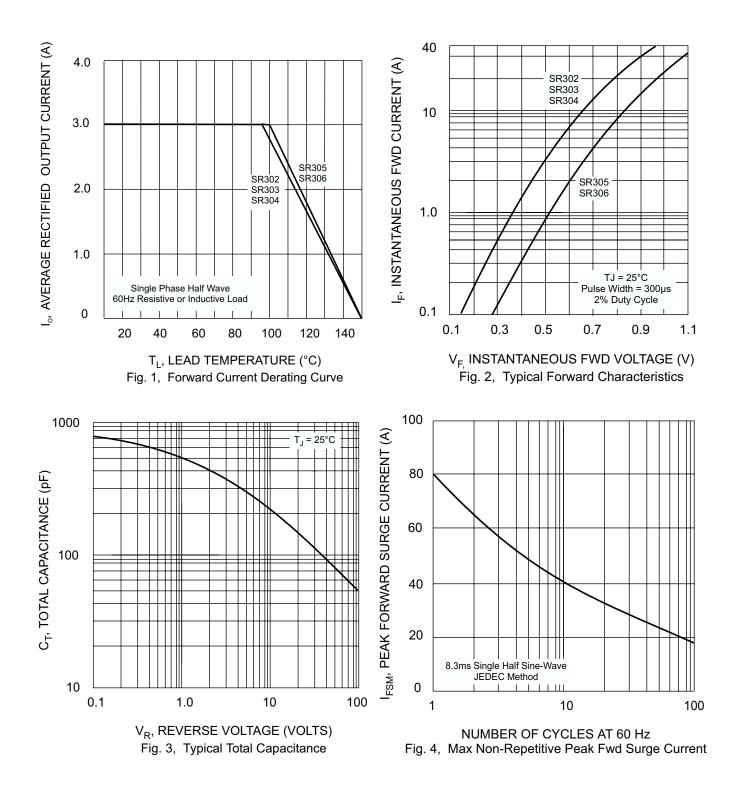
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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
Average Rectified Output Current (Note 1) $T_L = 95^{\circ}$ $T_L = 100^{\circ}$		3.0			3.0		А
Non-repetitive Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)		80					А
Forward Voltage @I <sub>F</sub> = 3.0	A V <sub>F</sub>	0.55			0.	0.72	
$ \begin{array}{c} \mbox{Peak Reverse Current at} & @ \mbox{T}_{A} = \ 25^{\circ} \\ \mbox{Rated DC Blocking Voltage} & @ \mbox{T}_{A} = \ 100^{\circ} \\ \end{array} $		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<sub>L</sub> 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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