



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 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

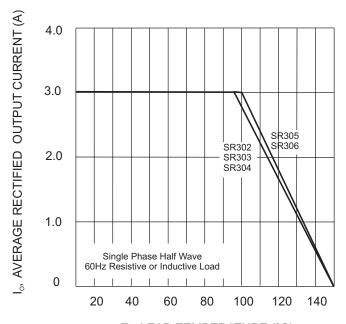
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	S	Symbol	SR302	SR303	SR304	SR305	SR306	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	II	V _{RRM} V _{RWM} V _R	20	30	40	50	60	V
RMS Reverse Voltage	V	√R(RMS)	14	21	28	35	42	V
	95°C 100°C	lo	3.0		3.0		А	
Non-repetitive Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	80					А
Forward Voltage @I _F	= 3.0A	VF	0.55			0.72		V
Peak Reverse Current at @ T _A = Rated DC Blocking Voltage @ T _A =		I _R	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		J, T _{STG}	-65 to +150					°C

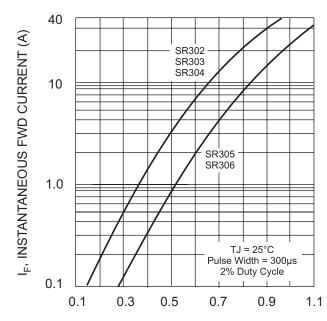
Notes:

- 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.

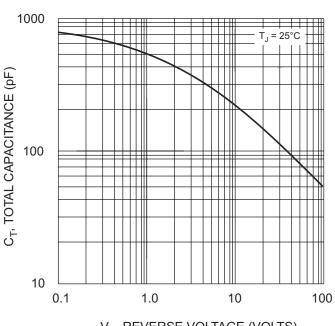




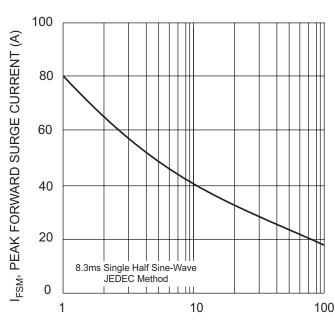
T_L, LEAD TEMPERATURE (°C)
Fig. 1, Forward Current Derating Curve



V_{F,} INSTANTANEOUS FWD VOLTAGE (V) Fig. 2, Typical Forward Characteristics



V_R, REVERSE VOLTAGE (VOLTS) Fig. 3, Typical Total Capacitance



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

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