

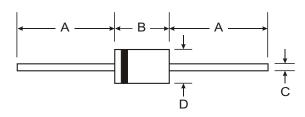


HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

NOT RECOMMENDED FOR NEW DESIGNS, PLEASE USE SB520 - SB560

Features

High Current Capability and Low Forward Drop High Surge Capacity Guard Ring for Transient Protection Low Power Loss, High Efficiency Plastic Material: UL Flammability Classification Rating 94V-0



Mechanical Data

Case: DO-201AD, Molded Plastic Terminals: Axial Lead, Solderable per

MIL-STD-202, Method 208 Mounting Position: Any Polarity: Cathode Band Weight: 1.20 grams (approx.)

DO-201AD						
Dim	Min	Max				
Α	25.40					
В	7.20	9.50				
С	1.20	1.30				
D	4.80	5.20				
All Dimensions in mm						

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Maximum Ratings and Electrical Characteristics

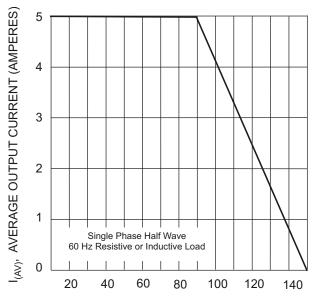
Rating at 25 C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	SR502	SR503	SR504	SR505	SR506	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RSM}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
	O C I _(AV)	5.0					Α
Peak Forward Surge current 8.3ms half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150					Α
Maximum Forward Voltage @ 5	.0A V _F	0.55 0.67			67	V	
		1.0 50					mA
Typical Thermal Resistance (Note 1)	R _{JL}		15		1	0	K/W
Typical Junction Capacitance (Note 2)	CJ		550		40	00	pF
Storage and Operating Temperature Range		-65 to +150				С	

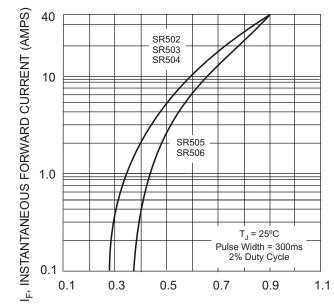
Notes:

- 1. Thermal Resistance from Junction to Lead Vertical PC Board Mounting, 9.5mm Lead Length.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

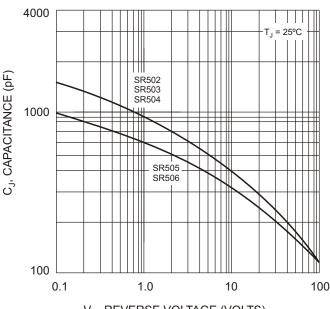




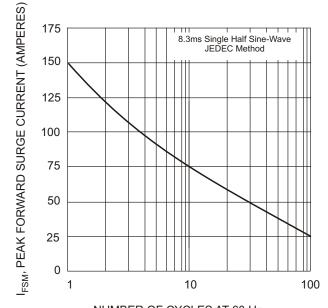
T_L, LEAD TEMPERATURE (°C) Fig. 1 Typical Forward Characteristics



V_F, INSTANTANEOUS FORWARD VOLTAGE (VOLTS) Fig. 2 Typical Forward Characteristics



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



NUMBER OF CYCLES AT 60 Hz Fig. 4 Maximum Non-Repetitive Peak Forward Surge Current

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