

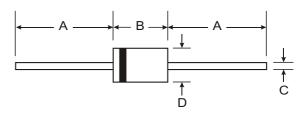
SR502 - SR506

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 5.20 4.80 All Dimensions in mm

Maximum Ratings and Electrical Characteristics

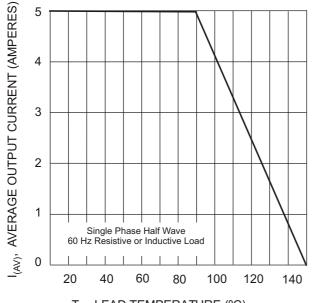
Rating at 25 C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

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
	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 @ 5.0	A V _F	0.55 0.67			67	V	
		1.0 50					mA
Typical Thermal Resistance (Note 1)	R JL	15			10		K/W
Typical Junction Capacitance (Note 2)	CJ	550		400		pF	
Storage and Operating Temperature Range	T _J , T _{STG}	-65 to +150					С

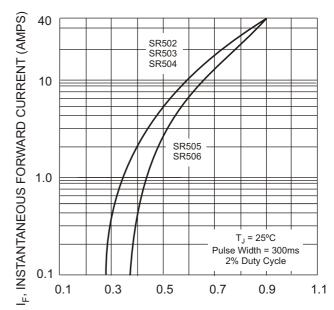
Notes:

- 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.

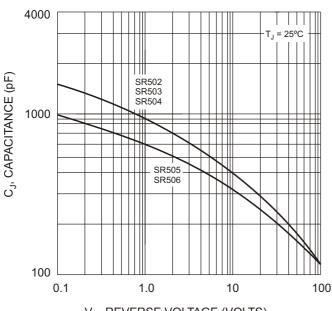




T_L, LEAD TEMPERATURE (°C) Fig. 1 Typical Forward Characteristics



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



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

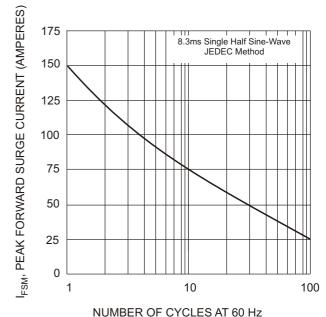


Fig. 4 Maximum Non-Repetitive Peak Forward Surge Current

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