

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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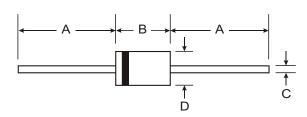


HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

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: AnyPolarity: 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						

Maximum Ratings and Electrical Characteristics

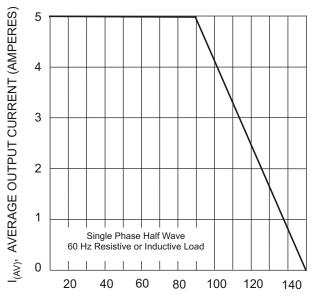
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

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
	I _(AV)	5.0					А
Peak Forward Surge current 8.3ms half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150					Α
Maximum Forward Voltage @ 5.0A	VF	0.55		0.67		V	
Maximum Average Reverse Current at $@T_A = 25^{\circ}C$ Peak Reverse Voltage $@T_A = 100^{\circ}C$		1.0 50				mA	
Typical Thermal Resistance (Note 1)	R ₀ 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					°C

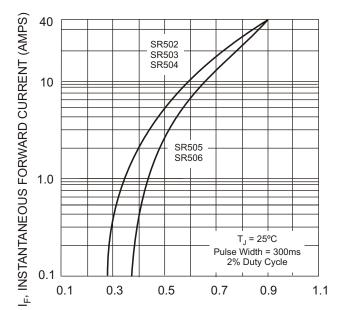
Notes:

- 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

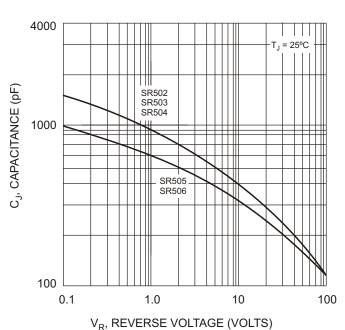
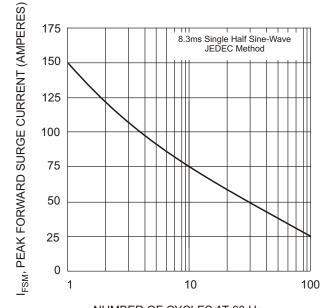


Fig. 3 Typical Junction Capacitance



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

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