

SR502 - SR506

HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

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

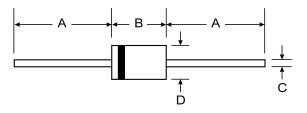
- Case: Molded Plastic
- Terminals: Axial Lead, Solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Polarity: Cathode Band
- Weight: 1.20 grams (approx.)

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		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
Maximum Average Forward Rectified @ T _L = 90° Current 9.5mm lead length		5.0			А		
Peak Forward Surge current 8.3ms half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150			А		
Maximum Forward Voltage @ 5.0	A V _F	0.55 0.67		67	V		
Maximum Average Reverse Current at Peak Reverse Voltage@ $T_A = 25^{\circ}$ @ $T_A = 100^{\circ}$	- 11	1.0 50			mA		
Typical Thermal Resistance (Note 1)	R _{0JL}		15		1	0	K/W
Typical Junction Capacitance (Note 2)	CJ		550		40	00	pF
Storage and Operating Temperature Range	TJ, TSTG	-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.



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					

