

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	Мах				
A	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
Maximum Average Forward Rectified @ T _L = 90 Current 9.5mm lead length	C I(AV)	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.	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			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.





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