New Jersey Semi-Conductor Products, Inc.

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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
- 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						

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	VRRM	20	30	40	50	60	V
Maximum RMS Voltage	V _{RSM}	14	21	28	35	42	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	V
Maximum Average Forward Rectified @ T _L = 90°C Current 9.5mm lead length	I _(AV)	5.0					A
Peak Forward Surge current 8.3ms half sine-wave Superimposed on Rated Load (JEDEC Method)	IFSM	150					А
Maximum Forward Voltage @ 5.0A	VF	0.55 0.67			67	V	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	l _R I _R	1.0 50					mA
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	15			10		K/W
Typical Junction Capacitance (Note 2)	CJ	550			4	400	
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.



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Quality Semi-Conductors

