Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
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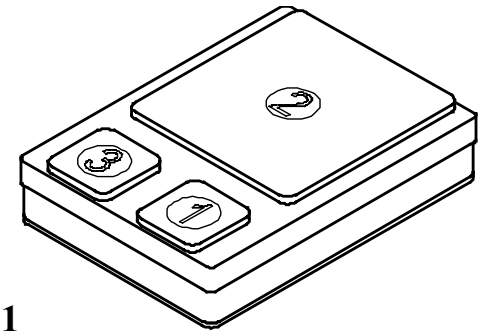
SSR1008
SSR1009
SSR1010

Designer's Data Sheet

10 AMP
100 VOLTS
SCHOTTKY RECTIFIER

FEATURES:

- **Extremely Low Forward Voltage Drop**
- **Low Reverse Leakage**
- **Hermetically Sealed Power Surface Mount Package**
- **Guard Ring for Overvoltage Protection**
- **Eutectic Die Attach**
- **175°C Operating Junction Temperature**
- **TX, TXV, or Space Level Screening Available**



SMD1

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage **SSR1008** **SSR1009** **SSR1010**	V_{RRM} V_{RWM} V_R	**80** **90** **100**	**Volts**
Average Rectified Output Current [1/] (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_O	**10**	**Amps**
Peak Surge Current [1/] (8.3 ms Pulse, Half Sine Wave, superimposed on I_O, allow junction to reach equilibrium between pulses, TA=25°C)	I_{FSM}	**200**	**Amps**
Operating and Storage Temperature	T_{OP} & T_{STG}	**-65 to +175**	**°C**
Maximum Thermal Resistance [1/] Junction to Case	$R_{\theta JC}$	**1.6**	**°C/W**

Notes: 1/ For optimal performance, leads 1 & 3 should be connected.

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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (I_F = 1 Adc, T_A = 25°C, Pulse) (I_F = 5 Adc, T_A = 25°C, Pulse) (I_F = 10 Adc, T_A = 25°C, Pulse)	V_{F1} V_{F2} V_{F3}	0.55 0.68 0.75	Vdc
Instantaneous Forward Voltage Drop (I_F = 10 Adc, T_A = -55°C, Pulse)	V_{F4}	0.83	Vdc
Reverse Leakage Current (Rated V_R, T_A = 25°C, Pulse)	I_{R1}	100	µA
Reverse Leakage Current (Rated V_R, T_A = 100°C, Pulse)	I_{R2}	5	mA
Junction Capacitance (V_R = 10 Vdc, T_A = 25°C, f = 1 MHz)	C_J	400	pF

Case Outline- SMD1

PIN OUT: (Rectifier)
PIN 1- ANODE
PIN 2- CATHODE
PIN 3- ANODE