Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

SSR1008G
SSR1009G
SSR1010G

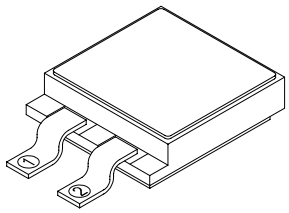
Designer's Data Sheet

10AMPS
60 - 100 VOLTS
SCHOTTKY
RECTIFIER

FEATURES:

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

CERPACK (G)



MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	**SSR1008G** **SSR1009G** **SSR1010G**	V_{RRM} V_{RWM} V_R	80 90 100	**Volts**
Average Rectified Forward Current 1/ (Resistive Load, 60 Hz, Sine Wave, T_A = 25°C)		I_O	10	**Amps**
Peak Surge Current 1/ (8.3 ms Pulse, Half Since Wave Superimposed on I_O, Allow Junction to Reach Equilibrium Between Pulses, T_A = 25°C)		I_{FSM}	200	**Amps**
Operating & Storage Temperature		T_{OP} & T_{stg}	-65 to +175	**°C**
Maximum Thermal Resistance 1/ (Junction to Case)		$R_{\theta JC}$	1.2	**°C/W**

Notes:

1/ For optimal performance, leads 1 & 2 should be connected together.

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ELECTRICAL CHARACTERISTICS		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop (T_A = 25°C, 300 μsec pulse)	I_F = 1 A I_F = 5 A I_F = 10 A	V_{F1}	— — —	— — —	0.56 0.72 0.82	V_{DC}
Instantaneous Forward Voltage Drop (I_F = 5 A, 300 μsec pulse)	T_A = -55°C	V_{F2}	—	—	0.79	V_{DC}
Reverse Leakage Current (Rated V_R, T_A = 25°C, 300 μsec pulse minimum)		I_{R1}	—	—	100	μA
Reverse Leakage Current (Rated V_R, T_A = 100°C, 300 μsec pulse minimum)		I_{R2}	—	—	5	mA
Junction Capacitance (V_R = 10V, f = 1MHz, T_A = 25°C)		C_J	—	—	400	pF

CASE OUTLINE:
CERPACK (Suffix G)

PIN OUT:

PIN 1: ANODE
PIN 2: ANODE
TAB: CATHODE

Note: For optimal performance, connect Anode terminals together.

