



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

SSR0508G

SSR0509G

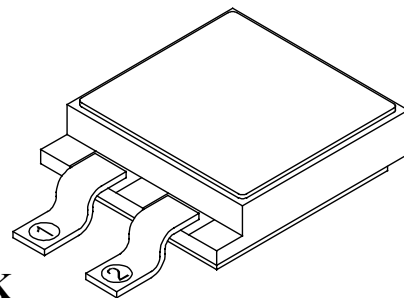
SSR0510G

Designer's Data Sheet

FEATURES:

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

5 AMP
80 — 100 VOLTS
SCHOTTKY RECTIFIER



CERPAC

MAXIMUM RATINGS

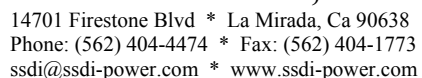
RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V_{RRM}	80	Volts
SSR0508G	V_{RWM}	90	
SSR0509G	V_R	100	
SSR0510G			
Average Rectified Output Current (Resistive Load, 60Hz, Sine Wave, $T_A=25^\circ\text{C}$)	I_O	5	Amps
Peak Surge Current ^{1/} (8.3 ms Pulse, Half Sine Wave, superimposed on I_O , allow junction to reach equilibrium between pulses, $T_A=25^\circ\text{C}$)	I_{FSM}	200	Amps
Operating and Storage Temperature	T_{OP} & T_{STG}	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	1.2	°C/W

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

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: RS0193C

DOC



ELECTRICAL CHARACTERISTICS

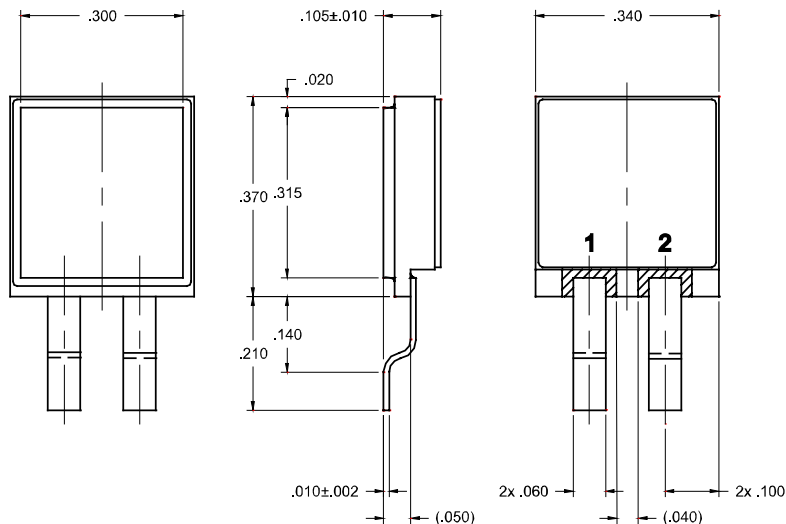
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 1 \text{ A}$ dc, $T_A = 25^\circ \text{C}$, Pulse) ($I_F = 5 \text{ A}$ dc, $T_A = 25^\circ \text{C}$, Pulse)	V_{F1}	0.56 0.72	Vdc
Instantaneous Forward Voltage Drop ($I_F = 5 \text{ A}$ dc, $T_A = -55^\circ \text{C}$, Pulse)	V_{F2}	0.87	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ \text{C}$, Pulse)	I_{R1}	100	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ \text{C}$, Pulse)	I_{R2}	5	mA
Junction Capacitance ($V_R = 10 \text{ V}$ dc, $T_A = 25^\circ \text{C}$, $f = 1 \text{ MHz}$)	C_J	400	pF

Case Outline- CERPACK

PIN 1- ANODE

PIN 2- ANODE

BOTTOM- CATHODE



Note: For optimal performance, connect anode terminals together.