



PRELIMINARY

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

SSR1040G

10 AMP
40 VOLTS
SCHOTTKY
RECTIFIER

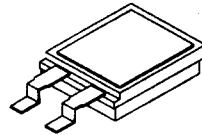
Designer's Data Sheet

FEATURES:

- Extremely Low Forward Voltage Drop
- Hermetically Sealed Custom Surface Mount Package
- Guard ring for overvoltage protection
- Eutectic Die Attach
- 150°C Operating Junction Temperature
- High Frequency, Low Inductance Flat Copper Leads

- TX, TXV, and Space Level Screening Available

CERPACK



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM	40	Volts
	VRWM		
	VR		
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	10	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	300	Amps
Operating and storage temperature	Top & Tstg	-65 to +150	°C
Maximum Thermal Resistance Junction to Case	RθJC	1.0	°C/W

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

DATA SHEET#: RS0171 C

MED

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ELECTRICAL CHARACTERISTICS

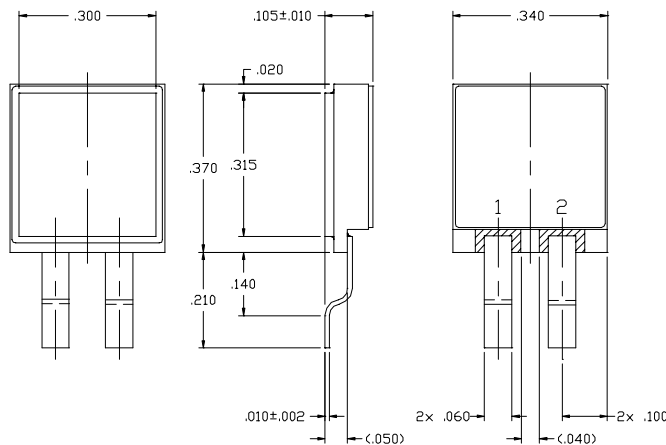
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 1 Adc, TA=25°C, 300µs Pulse) (IF = 5 Adc, TA=25°C, 300µs Pulse) (IF = 10 Adc, TA=25°C, 300µs Pulse)	VF1	0.28 0.39 0.49	Vdc
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA= - 55°C, 300µs Pulse)	VF2	0.52	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR1	5	mA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR2	200	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	800	pf

CASE OUTLINE: CERPACK

PIN OUT:
 PIN 1: ANODE
 PIN 2: ANODE
 BOTTOM: CATHODE

NOTE:

Connect Pins 1 & 2
 in application for
 best results.



TYPICAL OPERATING CURVES

(TA=25°C Unless otherwise specified)

