



PRELIMINARY

SOLID STATE DEVICES, INC

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

**SSR1040G**

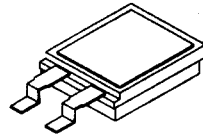
**10 AMP  
40 VOLTS  
SCHOTTKY  
RECTIFIER**

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

# SSR1040G

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## ELECTRICAL CHARACTERISTICS

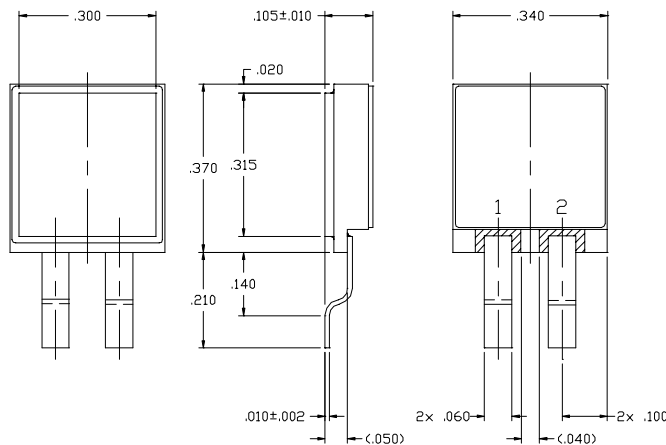
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
<b>Instantaneous Forward Voltage Drop</b> (IF = 1 Adc, TA=25°C, 300µs Pulse) (IF = 5 Adc, TA=25°C, 300µs Pulse) (IF = 10 Adc, TA=25°C, 300µs Pulse)	<b>VF1</b>	0.28 0.39 0.49	Vdc
<b>Instantaneous Forward Voltage Drop</b> (IF = 10 Adc, TA= - 55°C, 300µs Pulse)	<b>VF2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

