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

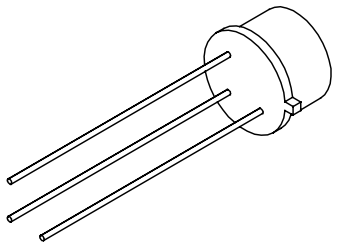
SSR1008/5
SSR1009/5
SSR1010/5

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**

10 AMP
80 – 100 VOLTS
SCHOTTKY RECTIFIER



TO-5

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage **SSR1008/5** **SSR1009/5** **SSR1010/5**	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}	**150**	**Amps**
Operating and Storage Temperature	T_{OP} & T_{STG}	**-65 to +175**	**°C**
Maximum Thermal Resistance 1/ Junction to Case	$R_{\theta JC}$	**7.0**	**°C/W**

Notes: 1/ For optimal performance, connect leads 1 & 2 together (Anode).

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

SSR1008/5
SSR1009/5
SSR1010/5

ELECTRICAL CHARACTERISTICS

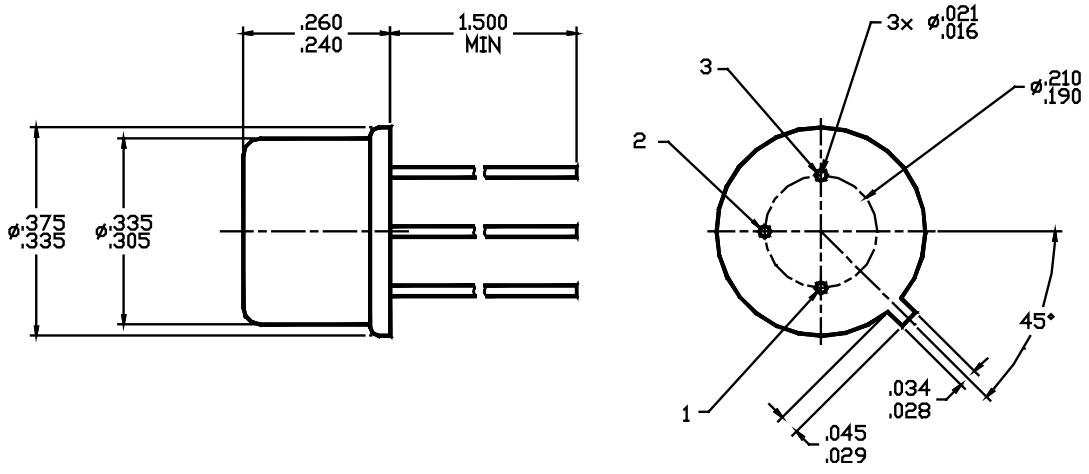
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop [2/] (I_F = 1 Adc, T_A = 25°C, 300 - 500µs Pulse) (I_F = 5 Adc, T_A = 25°C, 300 - 500µs Pulse) (I_F = 10 Adc, T_A = 25°C, 300 - 500µs Pulse)	V_{F1} V_{F2} V_{F3}	0.56 0.73 0.85	Vdc
Instantaneous Forward Voltage Drop (I_F = 5 Adc, T_A = -55°C, 300 - 500µs Pulse)	V_{F4}	0.82	Vdc
Reverse Leakage Current (Rated V_R, T_A = 25°C, 300µs Pulse Minimum)	I_{R1}	100	µA
Reverse Leakage Current (Rated V_R, T_A = 100°C, 300µs Pulse Minimum)	I_{R2}	5	mA
Junction Capacitance (V_R = 10 Vdc, T_A = 25°C, f = 1 MHz)	C_J	400	pF

NOTES:

2/ V_F as measured between pins 1 and 2 in common, within .100" from the case, and pin 3 directly at the case.

Case Outline- TO-5

PIN 1- ANODE
PIN 2- ANODE
PIN 3- CATHODE
CASE- CATHODE



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: SH0022C	DOC