Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, CA 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
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SSR3010 series

30 AMP
100 VOLTS
SCHOTTKY RECTIFIER

Designer's Data Sheet

Part Number / Ordering Information[1/]

SSR3010 ___ ___

|	L	**Screening[2/]**
|		____ = Not Screened
|		TX = TX Level
|		TXV = TXV Level
|		S = S Level
L		**Package**
		S.5 = SMD.5
		G = Cerpack

FEATURES:

- **PIV: 100 Volts**
- **Low Forward Voltage Drop**
- **Low Reverse Leakage**
- **Hermetically Sealed Power Surface Mount Package**
- **Guard Ring for Overvoltage Protection**
- **Eutectic Die Attach**
- **175°C Operating Junction Temperature**
- **TX, TXV, or Space Level Screening Available**

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	**100**	**Volts**
Average Rectified Output Current[3/] (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_O	**30**	**Amps**
Peak Surge Current[3/] (8.3 ms Pulse, Half Sine Wave superimposed on I_O, allow junction to reach equilibrium between pulses, TA=25°C)	I_{FSM}	**250**	**Amps**
Operating and Storage Temperature	T_{OP} & T_{STG}	**-65 to +175**	**°C**
Maximum Thermal Resistance[3/] Junction to Case	$R_{\theta JC}$	**2**	**°C/W**

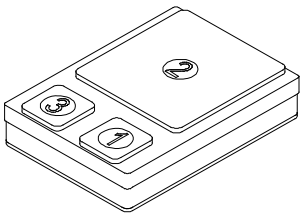
Note:

1/ For ordering information, price, and availability, contact factory.

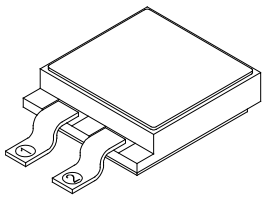
2/ Screening based on MIL-PRF-19500. Screening flows available on request.

3/ Both legs tied together.

SMD.5



Cerpack



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	**DATA SHEET #: SH0061B**	**DOC**

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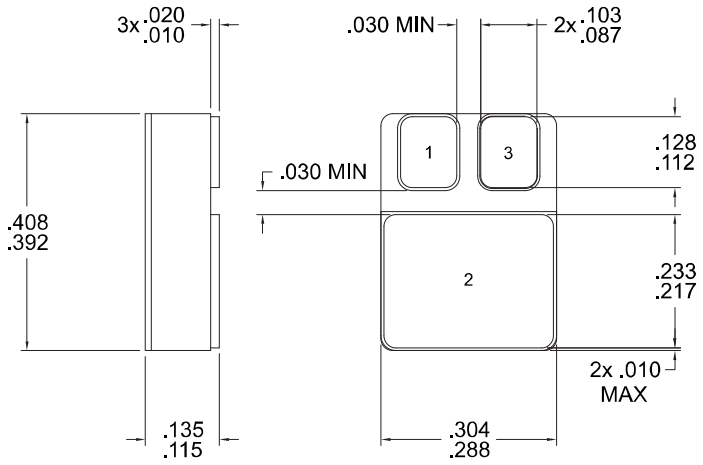
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TYPICAL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop				
(I_F = 20 Adc, T_A = 25°C, Pulse)	V_{F1}	0.86	0.90	Vdc
(I_F = 30 Adc, T_A = 25°C, Pulse)	V_{F2}	0.97	1.04	
(I_F = 60 Adc, T_A = 25°C, Pulse)	V_{F3}	1.20	1.35	
Instantaneous Forward Voltage Drop				
(I_F = 20 Adc, T_A = -55°C, Pulse)	V_{F4}	0.90	0.98	Vdc
(I_F = 30 Adc, T_A = -55°C, Pulse)	V_{F5}	1.00	1.10	
(I_F = 60 Adc, T_A = -55°C, Pulse)	V_{F6}	1.24	1.43	
Instantaneous Forward Voltage Drop				
(I_F = 20 Adc, T_A = 125°C, Pulse)	V_{F7}	0.65	0.73	Vdc
(I_F = 30 Adc, T_A = 125°C, Pulse)	V_{F8}	0.72	0.81	
(I_F = 60 Adc, T_A = 125°C, Pulse)	V_{F9}	0.85	1.03	
Reverse Leakage Current (Rated V_R, T_A = 25°C, Pulse)	I_{R1}	20	250	µA
Reverse Leakage Current (Rated V_R, T_A = 100°C, Pulse)	I_{R2}	1.3	-	mA
Reverse Leakage Current (Rated V_R, T_A = 125°C, Pulse)	I_{R3}	4.5	15	mA
Junction Capacitance (V_R = 5 Vdc, T_A = 25°C, f = 1 MHz)	C_J	375	450	pF

Case Outline - SMD.5
PIN OUT:
PIN 1 - ANODE 1
PIN 2 - CATHODE
PIN 3 - ANODE 2



Case Outline - Cerpack
PIN OUT:
PIN 1- ANODE 1
PIN 2 - ANODE 2
TAB - CATHODE