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

SSR0508-28
SSR0509-28
SSR0510-28

Designer's Data Sheet

5 AMPS
80-100 VOLTS
SCHOTTKY
RECTIFIER

FEATURES:

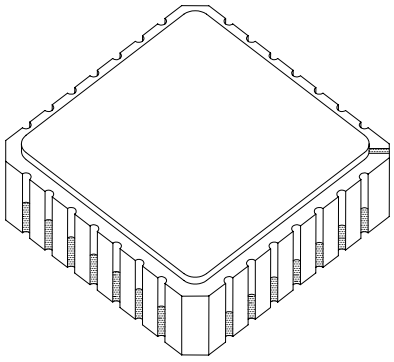
- Low Forward Voltage Drop
- Low Reverse Leakage
- Hermetically Sealed Surface Mount Package
- Guard Ring for Overvoltage Protection
- Ceramic Seals for Improved Hermeticity
- Custom Lead Forming Available
- Eutectic Die Attach
- 175°C Operating Junction Temperature

Also Available in the following configurations:

- Common Cathode Centertap: SSR1010-28CT
- Common Anode Centertap: SSR1010-28CA
- Doubler: SSR0510-28D

- TX, TXV, and Space Level Screening Available

28 PIN CLCC



MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	**SSR0508-28** **SSR0509-28** **SSR0510-28**	V_{RRM} V_{RWM} V_R	80 90 100	**Volts**
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, T_A=25°C)		I_O	5	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on I_O, allow junction to reach equilibrium between pulses, T_A=25°C)		I_{FSM}	200	**Amps**
Operating and Storage Temperature		T_{OP} & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case		$R_{\theta JC}$	6.0	°C/W

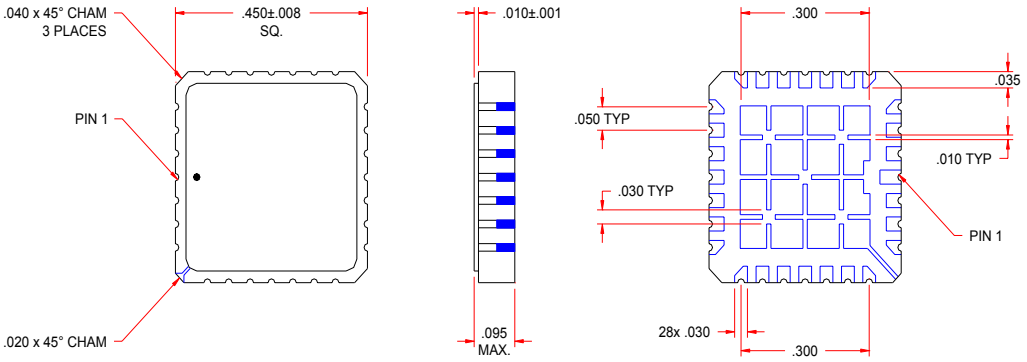
Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

SSR0508-28
SSR0509-28
SSR0510-28

ELECTRICAL CHARACTERISTICS (Per Leg)		Symbol	Max	Unit
Instantaneous Forward Voltage Drop (T_A = 25°C, Pulse)	I_F = 1 Amps I_F = 5 Amps	V_{F1} V_{F2}	0.56 0.72	**Volts**
Instantaneous Forward Voltage Drop (I_F = 5 Amps, T_A = -55°C, Pulse)		V_{F3}	0.87	**Volts**
Reverse Leakage Current (Rated V_R, T_A = 25°C, Pulse)		I_{R1}	100	**µA**
Reverse Leakage Current (Rated V_R, T_A = 100°C, Pulse)		I_{R2}	5	**mA**
Junction Capacitance (V_R =10 V_{DC}, T_A = 25°C, f = 1 MHz)		C_J	400	**pF**

CASE OUTLINE: 28 PIN CLCC
PIN OUT:
PIN 5-11: CATHODE
PIN 1, 15-28: ANODE
PIN 2, 3, 13, 14: N/C

Note:
For optimal performance, connect Anode pins 1 & 15-28 together and connect Cathode pins 5-11 together.



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RS0183E	DOC