



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

SSR1008-28
SSR1009-28
SSR1010-28

Designer's Data Sheet

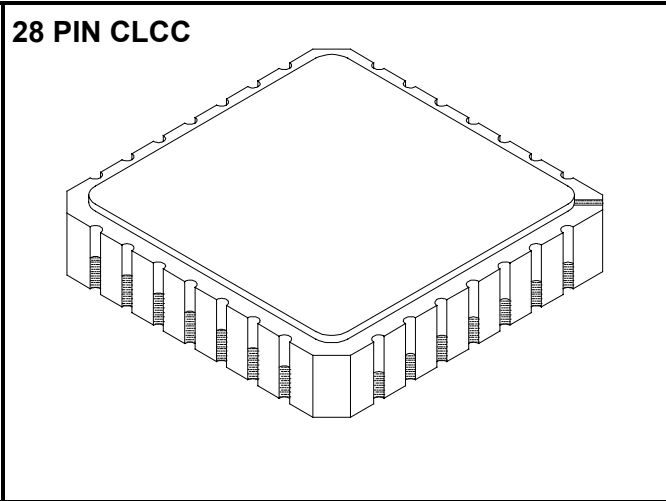
FEATURES:

- Extremely 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

10 AMPS
80-100 VOLTS
SCHOTTKY
RECTIFIER



MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SSR1008-28	V_{RRM}	80	Volts
	SSR1009-28	V_{RWM}	90	
	SSR1010-28	V_R	100	
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A=25^\circ\text{C}$)		I_O	10	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on I_O , allow junction to reach equilibrium between pulses, $T_A=25^\circ\text{C}$)		I_{FSM}	200	Amps
Operating and Storage Temperature		$T_{OP} \ \& \ T_{stg}$	-65 to +175	°C
Maximum Thermal Resistance Junction to Case		$R_{\theta JC}$	6.0	°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 #: RS0195B

DOC



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ELECTRICAL CHARACTERISTICS	Symbol	Max	Unit
Instantaneous Forward Voltage Drop ($T_A = 25^\circ\text{C}$, Pulse)	$I_F = 1\text{ Amps}$ $I_F = 5\text{ Amps}$ $I_F = 10\text{ Amps}$	V_{F1} V_{F2} V_{F3}	0.56 0.72 0.82
Instantaneous Forward Voltage Drop ($I_F = 10\text{ Amps}$, $T_A = -55^\circ\text{C}$, Pulse)		V_{F4}	0.87
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, Pulse)		I_{R1}	100 μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, Pulse)		I_{R2}	5 mA
Junction Capacitance ($V_R = 10\text{ V}_{\text{DC}}$, $T_A = 25^\circ\text{C}$, $f = 1\text{ MHz}$)		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.