PRELIMINARY

SSR1645-28

SOLID STATE DEVICES, INC

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

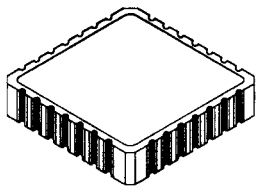
Designer's Data Sheet

15 AMP 45 VOLTS SCHOTTKY RECTIFIER

FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Hermetically Sealed Surface Mount Package
- Guard Ring for Overvoltage protection
- Eutectic Die Attach
- 175°C Operating Temperature
- TX, TXV and Space Level Screening Available

28 PIN CLCC



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	45	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_O	15	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses, TA=25°C)	I_{FSM}	80*	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	4.0	°C/W

* Connect all cathode and anode pins.

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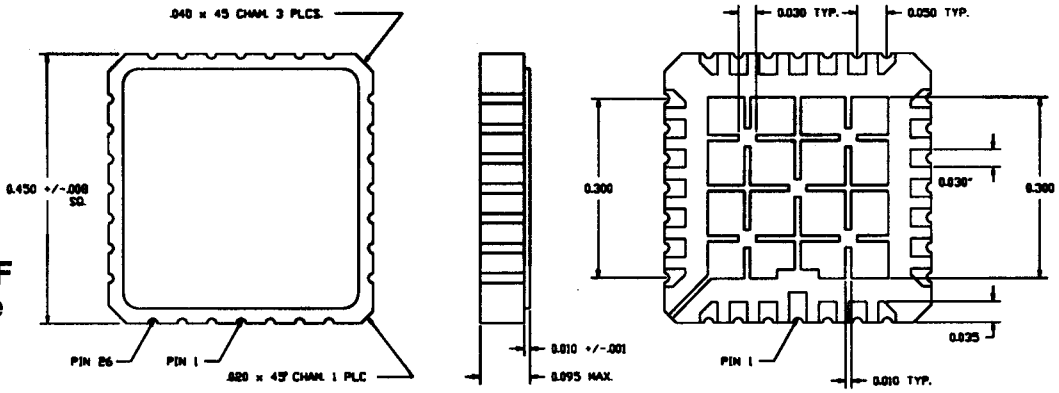
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 3 Adc, TA=25°C, 300µs Pulse) (IF = 5 Adc, TA=25°C, 300µs Pulse) (IF = 15 Adc, TA=25°C, 300µs Pulse)	VF1	0.48 0.55 0.82	Vdc
Instantaneous Forward Voltage Drop (IF = 5 Adc, TA= - 55°C, 300µs Pulse)	VF2	0.64	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR1	200	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR2	15	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	800	pf

CASE OUTLINE: 28 PIN CLCC

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

NOTE:
Connect all cathode/ anode pins for best VF values and best surge capability.



TYPICAL OPERATING CURVES

(TA=25°C unless otherwise specfied)

