PRELIMINARY

SSR1445CT/5

SOLID STATE DEVICES, INC

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

Designer's Data Sheet

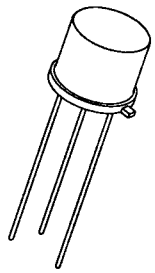
**7 AMP*
45 VOLTS
CENTERTAP
SCHOTTKY
RECTIFIER**

FEATURES:

- Extremely Low Forward Voltage Drop
- Hermetically Sealed
- Guard ring for overvoltage protection
- Eutectic Die Attach
- 150°C Operating Junction Temperature

- TX, TXV, and Space Level Screening Available

TO-5



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	14*	**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}	150	**Amps**
Operating and storage temperature	**Top & Tstg**	-65 to +150	**°C**
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	7.0	**°C/W**

* 7 Amps per leg, 14 Amps total output

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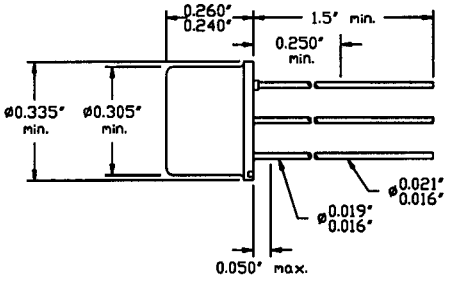
ELECTRICAL CHARACTERISTICS (per leg)

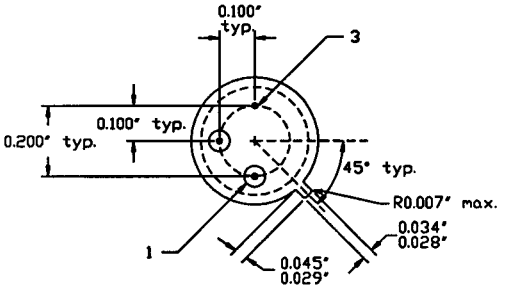
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (I_F = 3 Adc, T_A=25°C, 300µs Pulse) (I_F = 7 Adc, T_A=25°C, 300µs Pulse)	V_{F1}	0.52 0.70	Vdc
Instantaneous Forward Voltage Drop (I_F = 3 Adc, T_A= - 55°C, 300µs Pulse)	V_{F2}	0.60	Vdc
Reverse Leakage Current (Rated V_R, T_A=25°C, 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	350	pf

CASE OUTLINE:TO-5

N OUT:

PIN 1: ANODE 1
PIN2 : ANODE 2
PIN 3: CATHODE





TYPICAL OPERATING CURVES

(TA=25°C Unless otherwise specified)