



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, CA 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773
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SSR4045CTS1

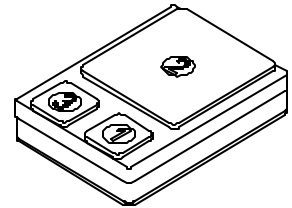
DESIGNER'S DATA SHEET

Features:

- Low Reverse Leakage Current
- Low Forward Voltage Drop
- Hermetically Sealed Surface Mount Power Package
- Guard Ring for Over voltage Protection
- Eutectic Die Attach
- 175°C max Operating Temperature
- TX, TXV, and Space Level Screening Available

**40 AMP
45 Volts
POSITIVE CENTERTAP
SCHOTTKY RECTIFIER**

SMD1



Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	SSR4045CTS1	V_{RRM} V_{RWM} V_R	45	Volts
Average Rectified Forward Current ^{1/} (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$)		I_o	40	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$) ^{1/}		I_{FSM}	600	Amps
Operating & Storage Temperature		Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance ^{1/} Junction to Case,		$R_{\theta JL}$	1.0	°C/W

Notes: ^{1/} Connect pins 2&3 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 #: SH0041A

DOC



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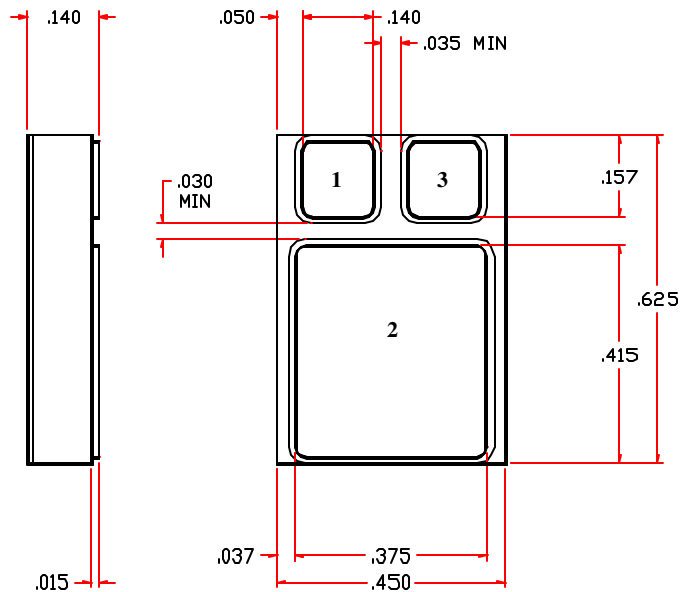
Electrical Characteristics (per leg)		Symbol	Min	Max	Units
Instantaneous Forward Voltage Drop (IF= 5Adc, T _A = 25°C, pulse) (IF=10Adc, T _A = 25°C, pulse) (IF=20Adc, T _A = 25°C, pulse)		V _{F1}	---	0.51	Volts
		V _{F2}	---	0.58	
		V _{F3}	---	0.70	
Instantaneous Forward Voltage Drop (IF= 10Adc, T _A = -55°C, pulse)		V _{F4}	---	0.65	Volts
Reverse Leakage Current (Rated V _R , T _A = 25°C, pulse)		I _{R1}	---	200	μA
Reverse Leakage Current (Rated V _R , T _A = 100°C, pulse)		I _{R2}	---	15	mA
Junction Capacitance (V _R = 10 Vdc, T _A = 25°C, f = 1MHz)		C _J	---	800	pF

CASE OUTLINE: SMD1

Pin 1: ANODE

Pin 2: CATHODE

Pin 3: ANODE



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