



Solid State Devices, Inc.

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DESIGNER'S DATA SHEET

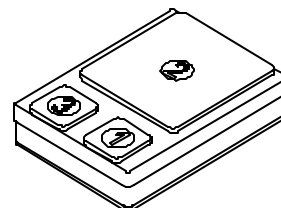
Features:

- 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

SSR4045CTS1

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

SMD1



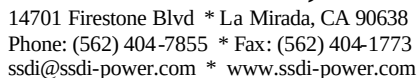
Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	SSR4045CTS1	V_{RRM} V_{RWM} V_R	45	Volts
Average Rectified Forward Current ^{1/} (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$)		I_O	40	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$)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

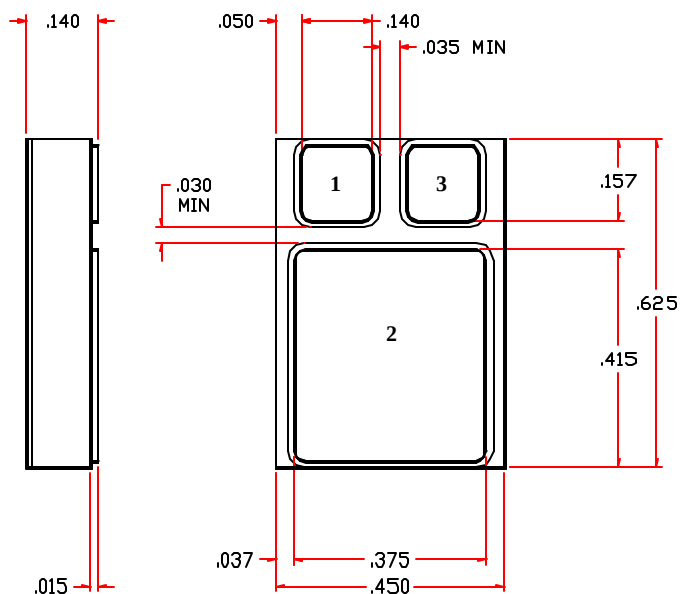
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SSR4045CTS1

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} V_{F2} V_{F3}	—	0.51 0.58 0.70	Volts
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	mA
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

Pin 3: ANODE



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