

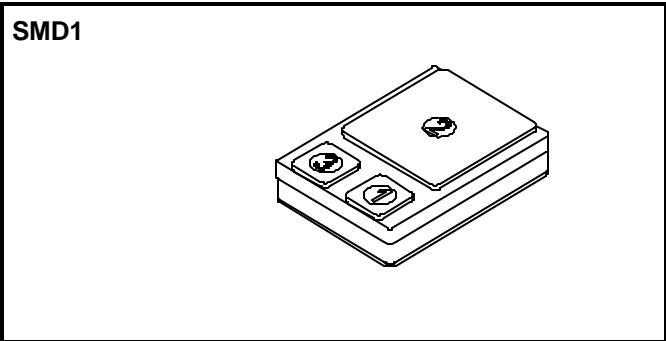
SSR4045CTS1

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

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



| 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°C) | | I _o | 40 | Amps |
| Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T _A = 25°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



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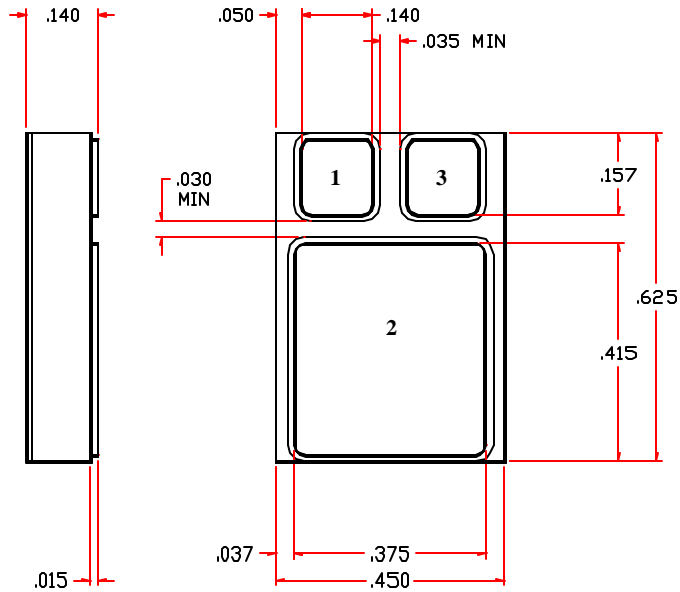
| Electrical Characteristics (per leg) | Symbol | Min | Max | Units |
|---|-----------------|-----|------|-------|
| Instantaneous Forward Voltage Drop (IF= 5Adc, T _A = 25°C, pulse) | V _{F1} | --- | 0.51 | Volts |
| (IF=10Adc, T _A = 25°C, pulse) | V _{F2} | --- | 0.58 | |
| (IF=20Adc, T _A = 25°C, pulse) | 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 | 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 |

CASE OUTLINE: SMD1

Pin 1: ANODE

Pin 2: CATHODE

Pin 3: ANODE



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