



Solid State Devices, Inc.

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SSR2010CTS1

20 AMP 100 VOLTS POSITIVE CENTERTAP SCHOTTKY RECTIFIER

Designer's Data Sheet

Part Number / Ordering Information^{1/}
SSR2010 CT S1

Screening^{2/}
 _____ = Not Screened
 TX = TX Level
 TXV = TXV Level
 S = S Level

Package
 S1 = SMD1

- FEATURES:**
- PIV: 100 Volts
 - Low Forward Voltage Drop
 - Low Reverse Leakage
 - Hermetically Sealed Power Surface Mount Package
 - Guard Ring for Overvoltage Protection
 - Eutectic Die Attach
 - 175°C Operating Junction Temperature
 - TX, TXV, or Space Level Screening Available

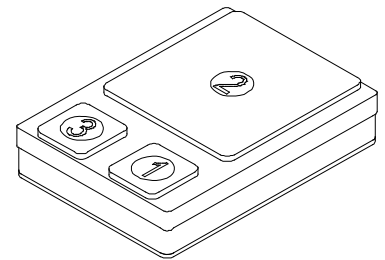
MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage SSR2010CT	V_{RRM} V_{RWM} V_R	100	Volts
Average Rectified Output Current ^{3/} (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_O	20	Amps
Peak Surge Current ^{3/} (8.3 ms Pulse, Half Sine Wave superimposed on I_O , allow junction to reach equilibrium between pulses, TA=25°C)	I_{FSM}	300	Amps
Operating and Storage Temperature	T_{OP} & T_{STG}	-65 to +175	°C
Maximum Thermal Resistance ^{3/} Junction to Case	$R_{\theta JC}$	0.8	°C/W

Note:

- 1/ For ordering information, price, and availability, contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- 3/ Both legs tied together.

SMD1





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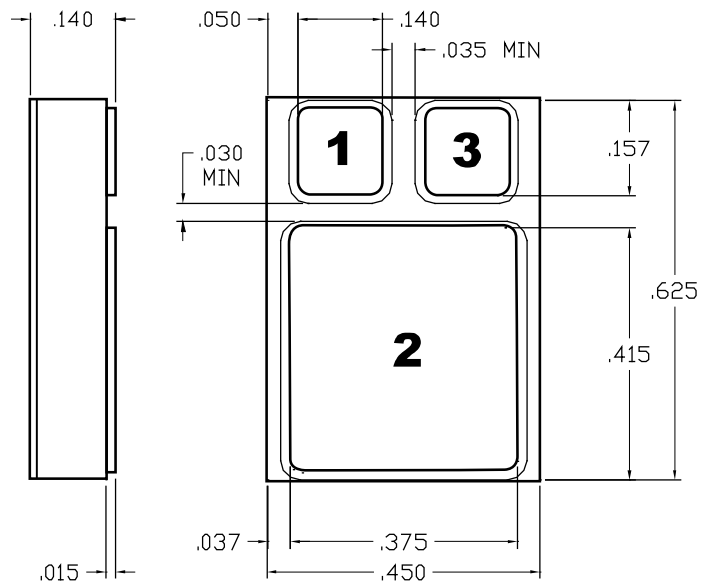
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ELECTRICAL CHARACTERISTICS (Per Leg)

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 3 \text{ Adc}$, $T_A = 25^\circ\text{C}$, Pulse)	V_{F1}	0.68	Vdc
($I_F = 5 \text{ Adc}$, $T_A = 25^\circ\text{C}$, Pulse)	V_{F2}	0.7	
($I_F = 10 \text{ Adc}$, $T_A = 25^\circ\text{C}$, Pulse)	V_{F3}	0.77	
Instantaneous Forward Voltage Drop ($I_F = 5 \text{ Adc}$, $T_A = -55^\circ\text{C}$, Pulse)	V_{F4}	0.84	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, Pulse)	I_{R1}	100	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, Pulse)	I_{R2}	5	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	C_J	400	pF

Case Outline- SMD1

PIN OUT:
PIN 1- ANODE 1
PIN 2- CATHODE
PIN 3- ANODE 2



NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: RS0067E

DOC