



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
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DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

SSR8045CT S1 TX

Screening ^{2/} ___ = Not Screened

TX = TX Level

TXV = TXV Level

S = S Level

Package: S1 = SMD1
S2 = SMD2

Configuration: CT = Common Cathode

SSR8045CTS1 and SSR8045CTS2 Series

80 Amp
SCHOTTKY
CENTERTAP RECTIFIER
45 Volts

Features:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Guard Ring for Overload Protection
- Also available in TO-258 and TO-259 Versions
- 175°C Operating Temperature
- TX, TXV, and S Level Screening Available

Maximum Ratings	Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RSM} V_R	45	Volts
Average Rectified Forward Current ^{3/} (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$)	I_O	80	Amps
Peak Surge Current ^{3/} (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$)	I_{FSM}	800	Amps
Operating & Storage Temperature	T_{OP} & T_{STG}	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	Total Per Leg $R_{\theta JE}$	0.5 1.0	°C/W

Notes:

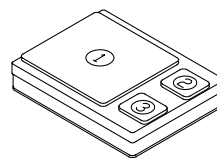
^{1/} For ordering information, price, operating curves, and availability - Contact factory.

^{2/} Screening based on MIL-PRF-19500. Screening flows available on request.

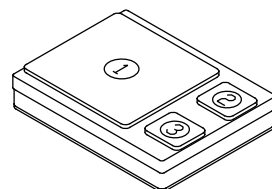
^{3/} Maximum electrical rating shown for centertap configurations both legs tied together.

^{4/} All electrical characteristics per leg @25°C, unless otherwise specified.

SMD1 (S1)



SMD2 (S2)



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

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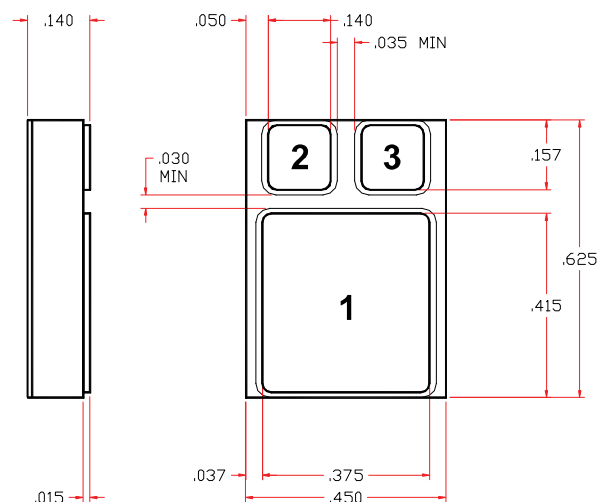
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SSR8045CTS1 and SSR8045CTS2 Series

Electrical Characteristic ^{4/}		Symbol	Min	Max	Units
Instantaneous Forward Voltage Drop (T _A = 25°C, 300 – 500usec Pulse)	I _F = 10A	V _{F1}	—	0.53	V _{DC}
	I _F = 20A	V _{F2}	—	0.65	
	I _F = 40A	V _{F3}	—	0.90	
Instantaneous Forward Voltage Drop (T _A = -55°C, 300 – 500usec Pulse)	I _F = 20A	V _{F4}	—	0.72	V _{DC}
Reverse Leakage Current (100% of rated V _R , 300μs pulse min.)	T _A = 25°C	I _{R1}	—	400	μA
	T _A = 100°C	I _{R2}	—	30	mA
Junction Capacitance (V _R =10V _{DC} , T _A =25°C, f=1MHz)		C _J	—	1600	pF

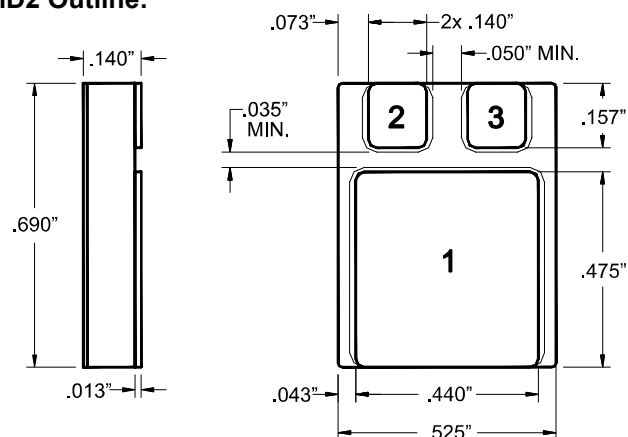
SMD1 Outline:



Available Part Numbers:

SSR8045CTS1, SSR8045CTS2

SMD2 Outline:



PIN ASSIGNMENT:

SMD1	Pin 2	Pin 1	Pin 3
SMD2	Pin 2	Pin 1	Pin 3
Common Cathode (CT)	Anode	Cathode	Anode

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