


SOLID STATE DEVICES, INC

 14849 Firestone Boulevard · La Mirada, CA 90638
 Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

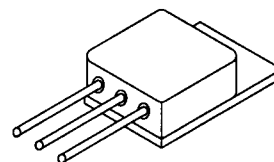
SSR2060CTM

Designer's Data Sheet

FEATURES:

- Low Reverse Leakage
 - Low Forward Voltage Drop
 - Guard Ring for Overvoltage protection
 - Isolated Hermetically Sealed Power Package
 - Ceramic Seals for Improved Hermeticity
 - Custom Lead Forming Available
 - Eutectic Die Attach
 - 175°C Operating Temperature
- TX, TXV, and Space Level Screening Available

**40 AMP
60 VOLTS
POSITIVE CENTERTAP
SCHOTTKY
RECTIFIER**

TO-254


MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM VRWM VR	60	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C) <i>note 1</i>	IO	40	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C) <i>note 1</i>	IFSM	600	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case, <i>note 1</i>	RθJC	0.9	°C/W

NOTE 1: Both legs tied 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 #: RS0275 B
MED

SSR2060CTM

PRELIMINARY

SSDI
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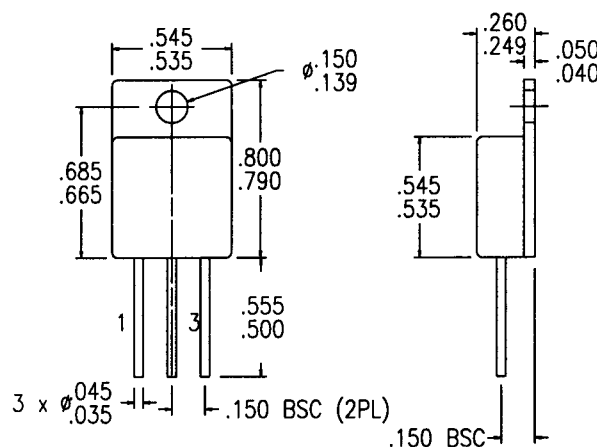
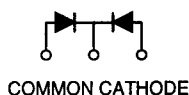
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ELECTRICAL CHARACTERISTICS (Per Leg)

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 10 \text{ A dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) ($I_F = 20 \text{ A dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	VF1	0.58 0.79	Vdc
Instantaneous Forward Voltage Drop ($I_F = 10 \text{ A dc}$, $T_A = -55^\circ\text{C}$, 300 μs Pulse)	VF2	0.65	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum)	IR1	250	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300 μs pulse minimum)	IR2	15	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	CJ	800	pf

CASE OUTLINE: TO-254

PIN 1: ANODE 1
PIN 2: CATHODE
PIN 3: ANODE 2



TYPICAL OPERATING CURVES

($T_A = 25^\circ\text{C}$ unless otherwise specified)

