



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
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SSR2060CTM

40 AMPS 60 VOLTS POSITIVE CENTERTAP SCHOTTKY RECTIFIER

Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SSR2060 — — —

- Screening ^{2/}
 - = Not Screened
 - TX = TX Level
 - TXV = TXV
 - S = S Level
- Package M = TO-254
- Configuration CT = Common Cathode

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

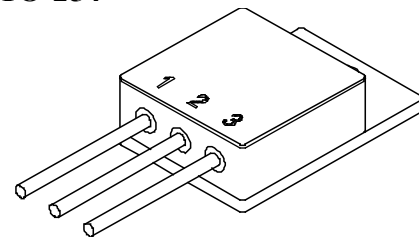
MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	Volts
Average Rectified Forward Current ^{3/} (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I _O	40	Amps
Peak Surge Current ^{3/} (8.3 ms Pulse, Half Sine Wave, single pulse, TA=25°C)	I _{FSM}	400	Amps
Operating and Storage Temperature	T _{OP} & T _{STG}	-65 to +175	°C
Maximum Thermal Resistance ^{3/} Junction to Case	R _{θJC}	0.9	°C/W

NOTES:

- ^{1/} For ordering information, price, and availability- Contact Factory.
- ^{2/} Screened to MIL-PRF-19500.
- ^{3/} Both legs tied together

TO-254





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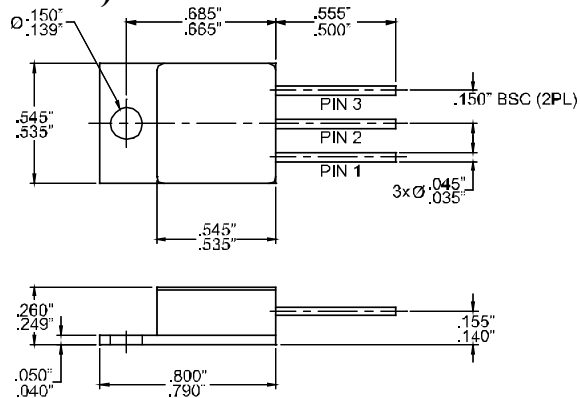
ELECTRICAL CHARACTERISTICS (Per Leg)

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 10 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs pulse) ($I_F = 20 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs pulse)	V_{F1}	0.58 0.79	Vdc
Instantaneous Forward Voltage Drop ($I_F = 10 \text{ Adc}$, $T_A = -55^\circ\text{C}$, 300 μs pulse)	V_{F2}	0.65	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum)	I_{R1}	250	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300 μs pulse minimum)	I_{R2}	15	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	C_J	800	pF

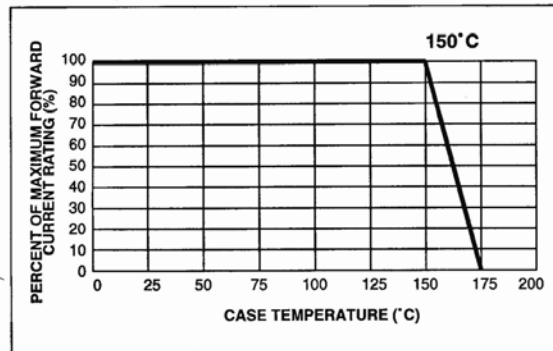
Case Outlines- TO-254

- PIN 1- CATHODE**
- PIN 2- ANODE**
- PIN 3- ANODE**

TO-254 (M Suffix)



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



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

DATA SHEET #: RS0275C

DOC