



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
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Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SSR2060

— — —
L Screening ^{2/} — = Not Screened

TX = TX Level

TXV = TXV

S = S Level

— Package M = TO-254

— Configuration CT = Common Cathode

SSR2060CTM

40 AMPS
60 VOLTS
POSITIVE CENTERTAP
SCHOTTKY RECTIFIER

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	$R_{\theta JC}$	0.9	°C/W

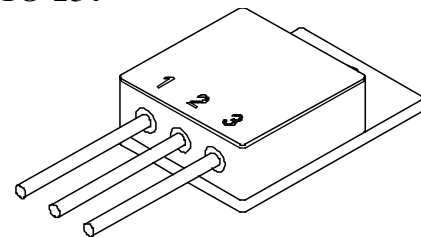
NOTES:

^{1/} For ordering information, price, and availability- Contact Factory.

^{2/} Screened to MIL-PRF-19500.

^{3/} Both legs tied together

TO-254



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



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SSR2060CTM

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)	V_{F1}	0.58 0.79	Vdc
Instantaneous Forward Voltage Drop ($I_F = 10 \text{ A dc}$, $T_A = -55^\circ\text{C}$, 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

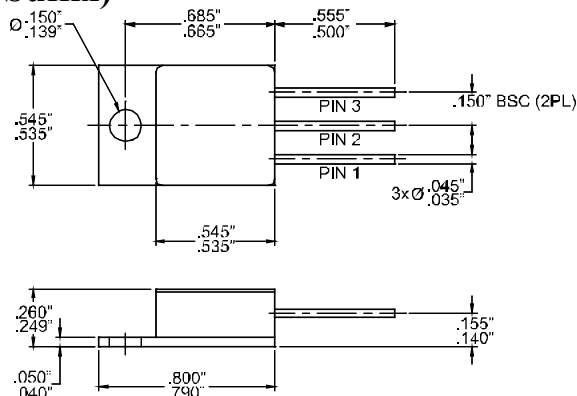
Case Outlines- TO-254

PIN 1- CATHODE

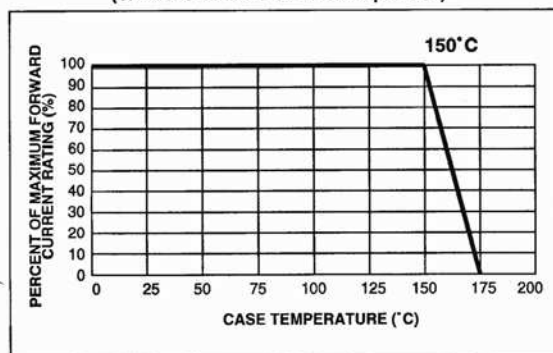
PIN 2- ANODE

PIN 3- ANODE

TO-254 (M Suffix)



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



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