Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

SSR1008M, SSR1008Z
SSR1009M, SSR1009Z
SSR1010M, SSR1010Z

Designer's Data Sheet

Part Number/Ordering Information [1/]

SSR1008 __ __ __
SSR1009 __ __ __
SSR1010 __ __ __

- **Screening** [2/]
  - __ = Not Screened
  - TX = TX Level
  - TXV = TXV Level
  - S = S Level
- **Lead Options**
  - __ = Straight Leads
  - DB = Bent Down
  - UB = Bent Up
- **Package**
  - M = TO-254
  - Z = TO-254Z

10 AMPS
80 - 100 VOLTS
SCHOTTKY RECTIFIER

FEATURES:

- **Extremely Low Forward Voltage Drop**
- **Low Reverse Leakage Current**
- **Hermetically Sealed 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	**SSR1008** **SSR1009** **SSR1010**	**V_{RRM}** **V_{RWM}** **V_R**	**80** **90** **100**	**Volts**
Average Rectified Output Current [3/] (Resistive Load, 60Hz, Sine Wave, TA=25°C)		**I_O**	**10**	**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}**	**200**	**Amps**
Operating and Storage Temperature		**T_{OP} & T_{STG}**	**-65 to +175**	**°C**
Maximum Thermal Resistance [3/] Junction to Case		**$R_{\theta JC}$**	**2.0**	**°C/W**

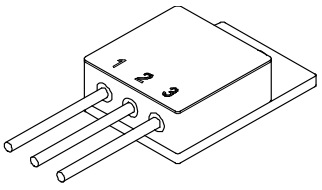
NOTES:

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

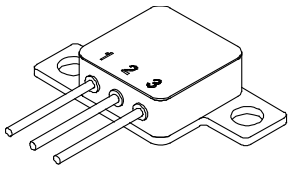
2/ Screening based on MIL-PRF-19500. Screening flows available on request.

3/ For optimal performance, connect leads 2 & 3 together.

TO-254



TO-254Z



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RS0205L	DOC

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ELECTRICAL CHARACTERISTICS (Per Leg)

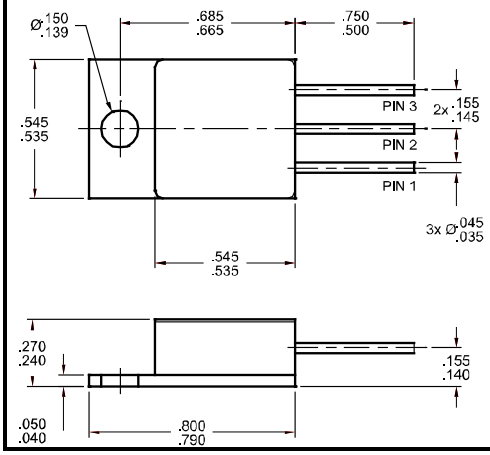
CHARACTERISTICS		SYMBOL	MAX	UNIT
Instantaneous Forward Voltage Drop (I_F = 1 Adc, T_A = 25°C, Pulse) (I_F = 5 Adc, T_A = 25°C, Pulse) (I_F = 10 Adc, T_A = 25°C, Pulse)		V_{F1} V_{F2} V_{F3}	0.57 0.72 0.8	Vdc
Instantaneous Forward Voltage Drop (I_F = 10 Adc, Pulse)	T_A = 100°C T_A = -55°C	V_{F4} V_{F5}	0.70 0.90	Vdc
Reverse Leakage Current (Rated V_R, T_A = 25°C, Pulse)		I_{R1}	100	µA
Reverse Leakage Current (Rated V_R, T_A = 100°C, Pulse)		I_{R2}	5	mA
Junction Capacitance (V_R = 10 Vdc, T_A = 25°C, f = 1 MHz)		C_J	400	pF

Case Outlines- TO-254 and TO-254Z
Configuration 4/

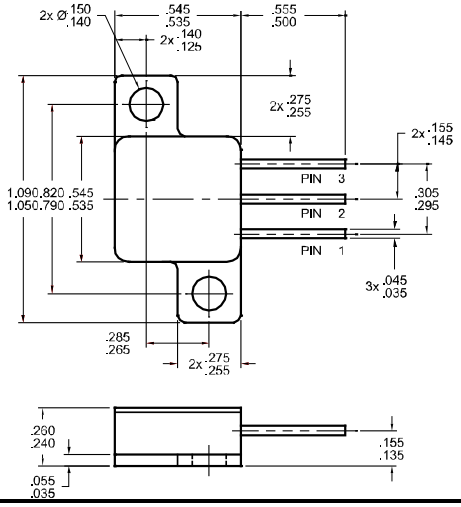
PIN OUT: Rectifier

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

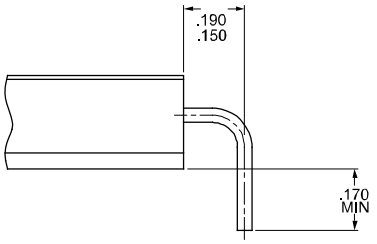
TO-254 (M Suffix)



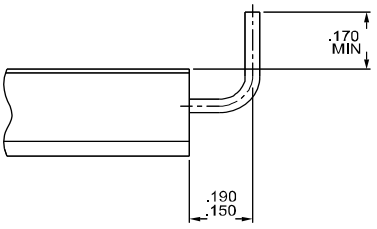
TO-254Z (Z Suffix)



Optional Bent Down Leads
(MDB & ZDB Suffix)



Optional Bent Up Leads
(MUB & ZUB Suffix)



For information on curves, contact the Factory Representative for Engineering Assistance.

NOTES: **4/** Pins 2 and 3 must be externally connected for best performance.