



PRELIMINARY

SOLID STATE DEVICES, INC

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

SSR2040M  
SSR2040Z

## Designer's Data Sheet

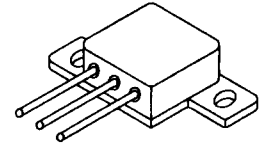
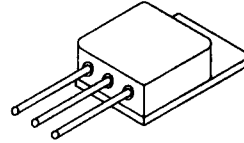
### FEATURES:

- Extremely Low Forward Voltage Drop
- Hermetically Sealed Isolated Power Package
- Guard ring for overvoltage protection
- Eutectic Die Attach
- 150°C Operating Junction Temperature
- Ceramic seals for lead forming
  
- TX, TXV, and Space Level Screening Available

20 AMP  
40 VOLTS  
SCHOTTKY  
RECTIFIER

TO-254

TO-254Z



## MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM	40	Volts
	VRWM		
	VR		
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	20	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	300	Amps
Operating and storage temperature	Top & Tstg	-65 to +150	°C
Maximum Thermal Resistance Junction to Case	RθJC	1.5	°C/W

Available with Glass or Ceramic Seals. Contact Factory for Details.

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

DATA SHEET#: RS0159 B

MED

# SSR2040M SSR2040Z

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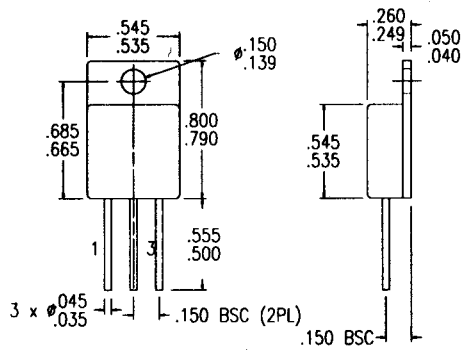
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## ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
<b>Instantaneous Forward Voltage Drop</b> (IF = 5 Adc, TA=25°C, 300µs Pulse) (IF = 10 Adc, TA=25°C, 300µs Pulse) (IF = 20 Adc, TA=25°C, 300µs Pulse)	<b>VF1</b>	0.40 0.50 0.68	Vdc
<b>Instantaneous Forward Voltage Drop</b> (IF = 10 Adc, TA= - 55°C, 300µs Pulse)	<b>VF2</b>	0.55	Vdc
<b>Reverse Leakage Current</b> (Rated VR, TA=25°C, 300µs pulse minimum)	<b>IR1</b>	5	mA
<b>Reverse Leakage Current</b> (Rated VR, TA=100°C, 300µs pulse minimum)	<b>IR2</b>	200	mA
<b>Junction Capacitance</b> (VR = 10 Vdc, TA=25°C, f= 1 MHz )	<b>CJ</b>	800	pf

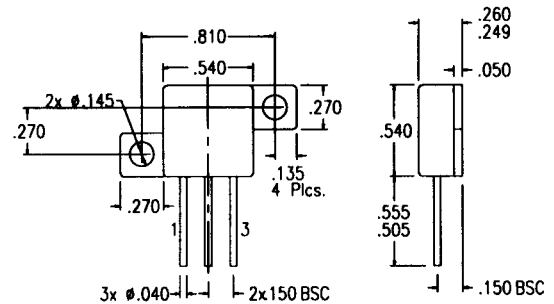
### CASE OUTLINE: TO-254

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



### CASE OUTLINE: TO-254Z

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



## TYPICAL OPERATING CURVES (TA=25°C Unless otherwise specified)

