



SOLID STATE DEVICES, INC

PRELIMINARY

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

**SSR1045M
SSR1045Z**

Designer's Data Sheet

FEATURES:

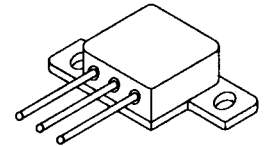
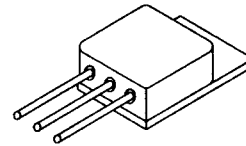
- Low Reverse Leakage
- Low Forward Voltage Drop
- Guard Ring for Overvoltage protection
- Isolated Hermetically Sealed Power Package
- Ceramic Seals for Improved Hermeticity
- Custom Lead Forming Available
- Eutectic Die Attach
- 175°C Operating Temperature

- TX, TXV and Space Level Screening Available

**10 AMP
45 VOLTS
SCHOTTKY
RECTIFIER**

TO-254

TO-254Z



MAXIMUM RATINGS

| RATING | SYMBOL | VALUE | UNIT |
|--|------------|-------------|-------|
| Peak Repetitive Reverse and DC Blocking Voltage | VRRM | 45 | Volts |
| | VRWM | | |
| | VR | | |
| Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C) | IO | 10 | 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 | 150 | Amps |
| Operating and storage temperature | Top & Tstg | -65 to +175 | °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#: RS0135 B

MED

**SSR1045M
SSR1045Z**

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SSDI

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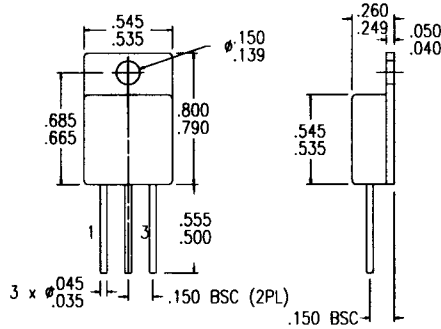
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ELECTRICAL CHARACTERISTICS

| CHARACTERISTICS | SYMBOL | MAXIMUM | UNIT |
|--|------------|--------------|------|
| Instantaneous Forward Voltage Drop (IF = 5 Adc, TA=25° C, 300µs Pulse) (IF = 10 Adc, TA=25° C, 300µs Pulse) | VF1 | 0.53 0.64 | Vdc |
| Instantaneous Forward Voltage Drop (IF = 5 Adc, TA= - 55° C, 300µs Pulse) | VF2 | 0.59 | Vdc |
| Reverse Leakage Current (Rated VR, TA=25° C, 300µs pulse minimum) | IR1 | 100 | µA |
| Reverse Leakage Current (Rated VR, TA=100° C, 300µs pulse minimum) | IR2 | 10 | mA |
| Junction Capacitance (VR = 10 Vdc, TA=25° C, f= 1 MHz) | CJ | 400 | pf |

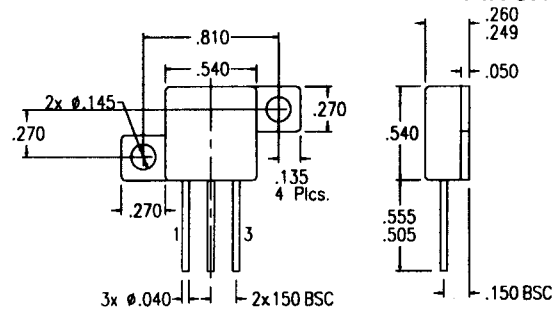
CASE OUTLINE: TO-254

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)

