



## RS201-G thru RS207-G

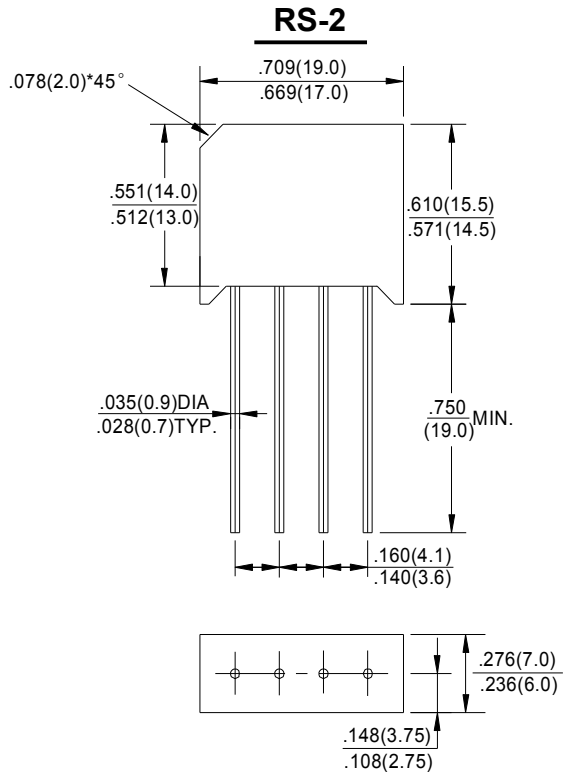
"-G" : RoHS Device

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 2.0 Amperes

### FEATURES

- Surge overload rating -50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in expensive product
- Mounting position :Any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| CHARACTERISTICS                                                                                           | SYMBOL            | RS201       | RS202 | RS203 | RS204 | RS205 | RS206 | RS207 | UNIT             |
|-----------------------------------------------------------------------------------------------------------|-------------------|-------------|-------|-------|-------|-------|-------|-------|------------------|
| Maximum Recurrent Peak Reverse Voltage                                                                    | V <sub>RRM</sub>  | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V                |
| Maximum RMS Voltage                                                                                       | V <sub>RMS</sub>  | 35          | 70    | 140   | 280   | 420   | 560   | 700   | V                |
| Maximum DC Blocking Voltage                                                                               | V <sub>DC</sub>   | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V                |
| Maximum Average Forward Rectified Current<br>0.375" (9.5mm) Lead Lengths @T <sub>A</sub> =40 °C           | I <sub>(AV)</sub> | 2.0         |       |       |       |       |       |       | A                |
| Peak Forward Surge Current ,<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load (JEDEC Method) | I <sub>FSM</sub>  | 50          |       |       |       |       |       |       | A                |
| I <sup>2</sup> t Rating for Fusing (t<8.3ms)                                                              | I <sup>2</sup> t  | 15.0        |       |       |       |       |       |       | A <sup>2</sup> s |
| Maximum Forward Voltage Drop<br>Per Element at 2.0A Peak                                                  | V <sub>F</sub>    | 1.1         |       |       |       |       |       |       | V                |
| Maximum DC Reverse Current at Rated<br>DC Blocking Voltage T <sub>J</sub> =25°C<br>T <sub>J</sub> =100°C  | I <sub>R</sub>    | 10.0<br>1.0 |       |       |       |       |       |       | μA<br>mA         |
| Typical Junction Capacitance Per Element (Note1)                                                          | C <sub>J</sub>    | 30          |       |       |       |       |       |       | pF               |
| Operating Temperature Range                                                                               | T <sub>J</sub>    | -55 to +125 |       |       |       |       |       |       | °C               |
| Storage Temperature Range                                                                                 | T <sub>STG</sub>  | -55 to +150 |       |       |       |       |       |       | °C               |

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

## RATINGS AND CHARACTERISTIC CURVES RS201-G thru RS207-G

FIG.1-DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

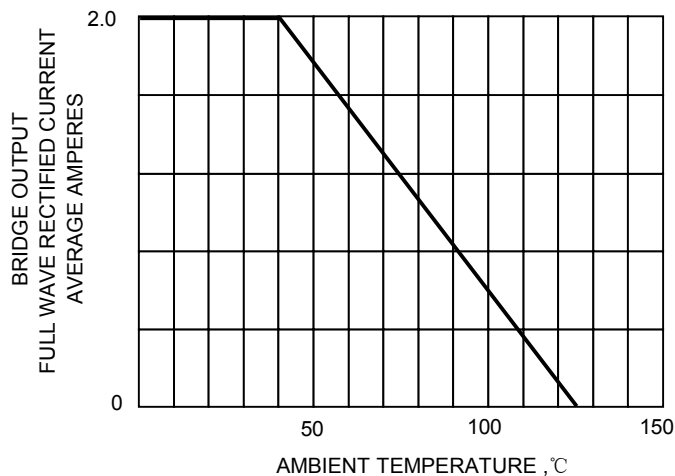


FIG.2-MXIMUM NON-REPETITIVE  
SURGE CURRENT

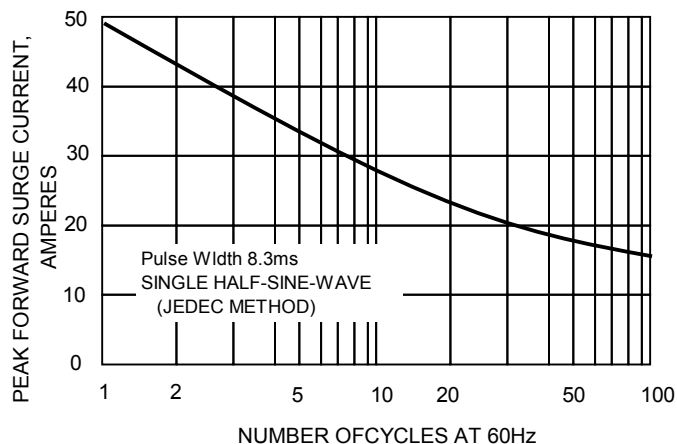


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

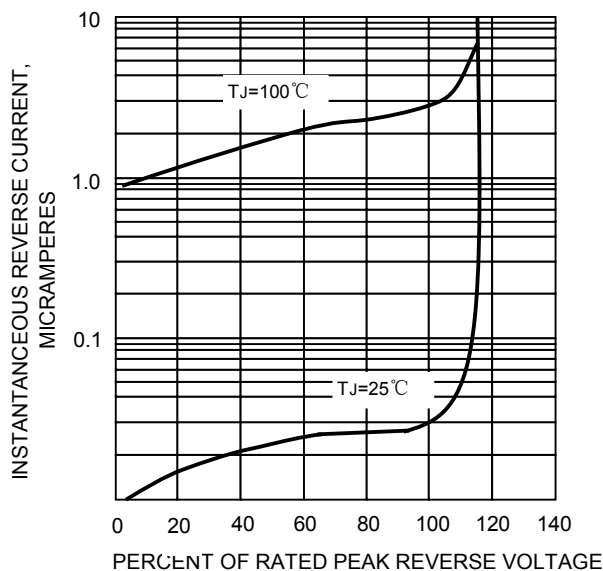


FIG.4-TYPICAL FORWARD CHARACTERISTICS

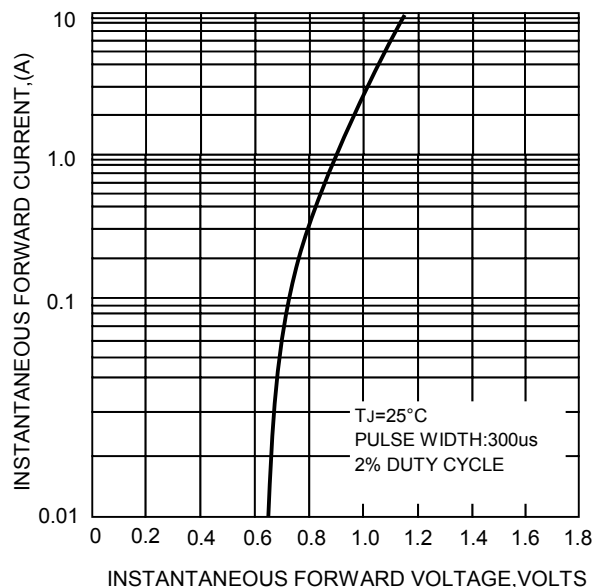


FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

