

**SINGLE-PHASE GLASS PASSIVATED  
SILICON BRIDGE RECTIFIER**

**VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere**

**FEATURES**

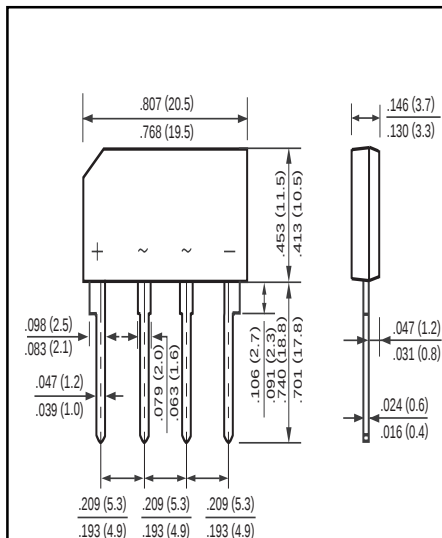
- \* Ideal for printed circuit board
- \* Mounting position: Any

**MECHANICAL DATA**

- \* UL listed the recognized component directory, file #E94233
- \* Epoxy: Device has UL flammability classification 94V-O

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS** (At TA = 25°C unless otherwise noted)

| RATINGS                                                                                           | SYMBOL           | RS201M       | RS202M | RS203M | RS204M | RS205M | RS206M | RS207M | UNITS |
|---------------------------------------------------------------------------------------------------|------------------|--------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                            | V <sub>RRM</sub> | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum RMS Bridge Input Voltage                                                                  | V <sub>RMS</sub> | 35           | 70     | 140    | 280    | 420    | 560    | 700    | Volts |
| Maximum DC Blocking Voltage                                                                       | V <sub>DC</sub>  | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum Average Forward Output Current TA = 50°C                                                  | I <sub>O</sub>   | 2.0          |        |        |        |        |        |        | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I <sub>FSM</sub> | 50           |        |        |        |        |        |        | Amps  |
| Operating Temperature Range                                                                       | T <sub>J</sub>   | -55 to + 150 |        |        |        |        |        |        | °C    |
| Storage Temperature Range                                                                         | T <sub>STG</sub> | -55 to + 150 |        |        |        |        |        |        | °C    |
| Typical Junction Capacitance (Note)                                                               | C <sub>J</sub>   | 15           |        |        |        |        |        |        | pF    |

**ELECTRICAL CHARACTERISTICS** (At TA = 25°C unless otherwise noted)

| CHARACTERISTICS                                                  | SYMBOL         | RS201M | RS202M | RS203M | RS204M | RS205M | RS206M | RS207M | UNITS |
|------------------------------------------------------------------|----------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Forward Voltage Drop per Bridge Element at 2.0A DC       | V <sub>F</sub> | 1.1    |        |        |        |        |        |        | Volts |
| Maximum Reverse Current at Rated Dc Blocking Voltage per element | I <sub>R</sub> | 5.0    |        |        |        |        |        |        | uAmps |
|                                                                  |                | 0.5    |        |        |        |        |        |        | mAmps |

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts

# RATING AND CHARACTERISTIC CURVES ( RS201M THRU RS207M )

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

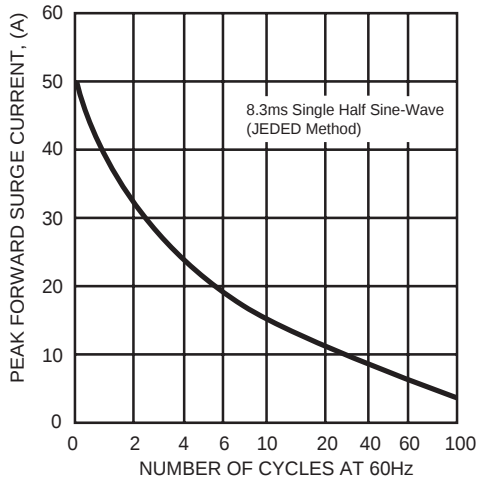


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

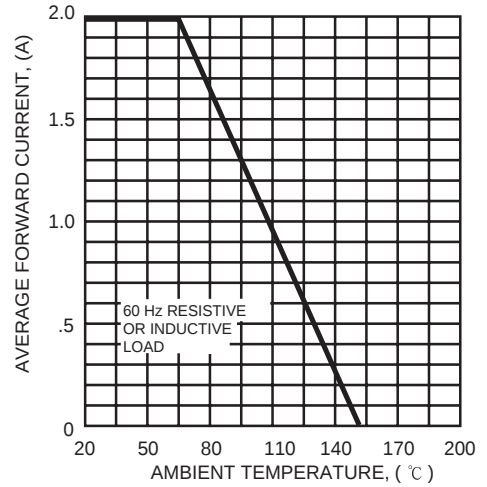


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

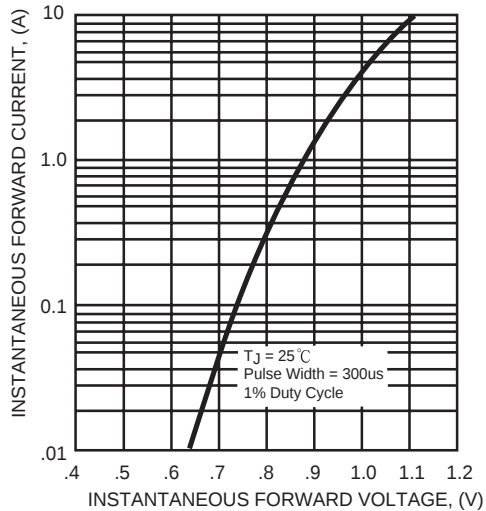


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

