

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

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

**FEATURES**

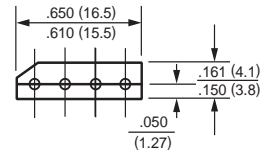
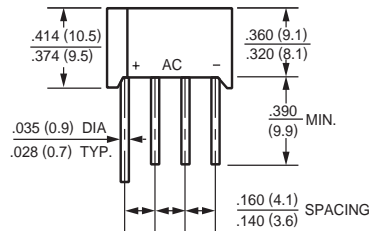
- \* Low cost
- \* Low leakage
- \* Low forward voltage
- \* Mounting position: Any
- \* Weight: 1.26 grams

**MECHANICAL DATA**

- \* UL listed the recognized component directory, file #E94233
- \* Epoxy: Device has UL flammability classification 94V-0



**RS-1**



Dimensions in inches and (millimeters)

**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%.

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

| RATINGS   | SYMBOL | MDA200G      | MDA201G | MDA202G | MDA204G | MDA206G | MDA208G | MDA210G | UNITS |
|---|--------|--------------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage  | VRRM   | 50           | 100     | 200     | 400     | 600     | 800     | 1000    | Volts |
| Maximum RMS Bridge Input Voltage  | VRMS   | 35           | 70      | 140     | 280     | 420     | 560     | 700     | Volts |
| Maximum DC Blocking Voltage   | VDC    | 50           | 100     | 200     | 400     | 600     | 800     | 1000    | Volts |
| Maximum Average Forward Output Current at TA = 50°C   | Io     | 2.0          |         |         |         |         |         |         | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM   | 50           |         |         |         |         |         |         | Amps  |
| Typical Thermal Resistance from junction to case  | RθJC   | 13           |         |         |         |         |         |         | °C/W  |
| Typical Thermal Resistance from junction to ambient   | RθJA   | 40           |         |         |         |         |         |         |       |
| Operating Temperature Range   | TJ     | -55 to + 150 |         |         |         |         |         |         | °C    |
| Storage Temperature Range   | TSTG   | -55 to + 150 |         |         |         |         |         |         | °C    |

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

| CHARACTERISTICS  | SYMBOL       | MDA200G | MDA201G | MDA202G | MDA204G | MDA206G | MDA208G | MDA210G | UNITS |
|--|--------------|---------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Forward Voltage Drop per Bridge Element at 3.14A DC      | VF           | 1.1     |         |         |         |         |         |         | Volts |
| Maximum Reverse Current at Rated DC Blocking Voltage per element | @ TA = 25°C  | 5.0     |         |         |         |         |         |         | uAmps |
|  | @ TA = 100°C | 1       |         |         |         |         |         |         | mAmps |

Note: "Fully ROHS compliant", "100% Sn plating(Pb-free).

# RATING AND CHARACTERISTIC CURVES ( MDA200G THRU MDA210G )

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

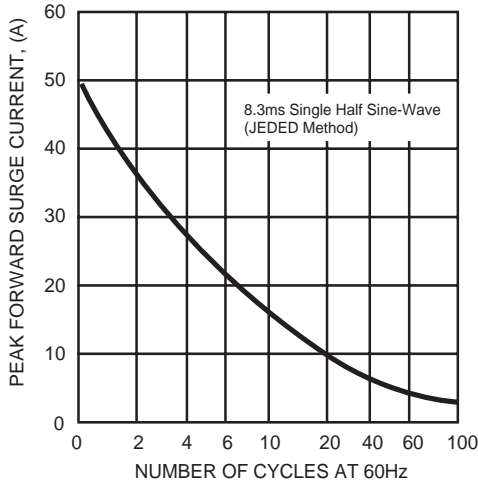


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

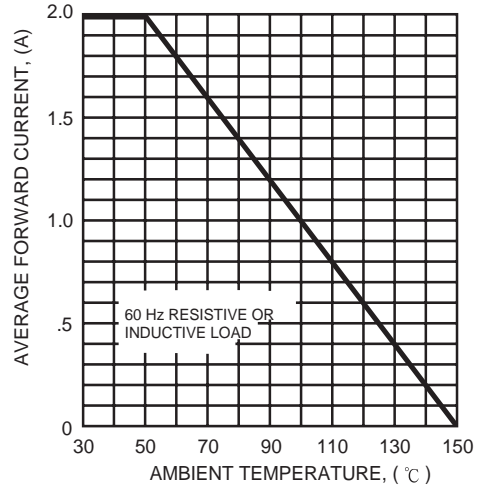


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

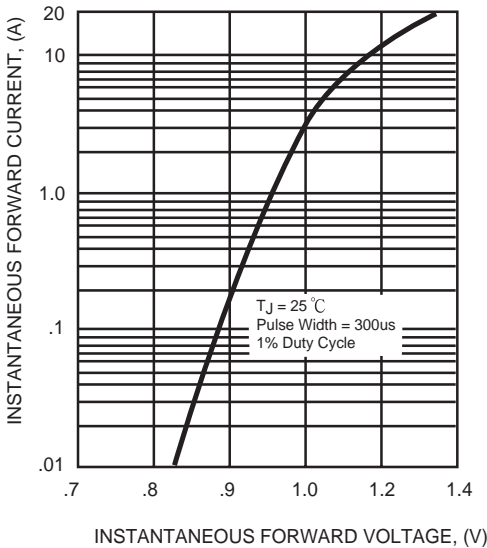


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

