

SILICON BRIDGE RECTIFIERS

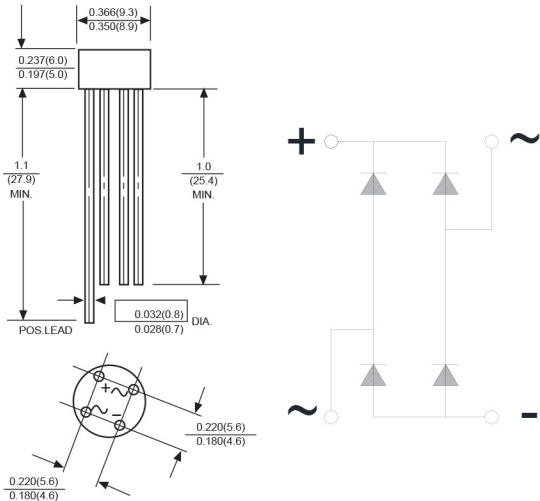
Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds,5 lbs. (2.3kg) tension



Mechanical Data

Case : JEDEC WOM Molded plastic body  
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026  
Polarity : Polarity symbol marking on body  
Mounting Position : Any  
Weight : 0.05 ounce, 1.42 grams



Dimensions in inches and (millimeters)

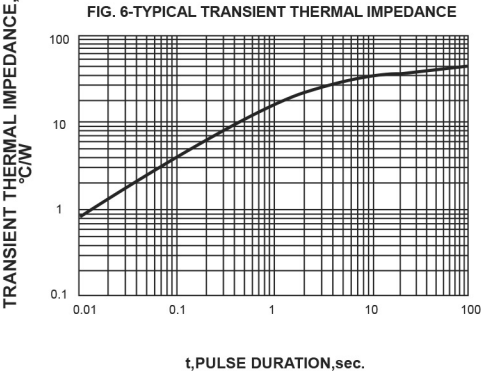
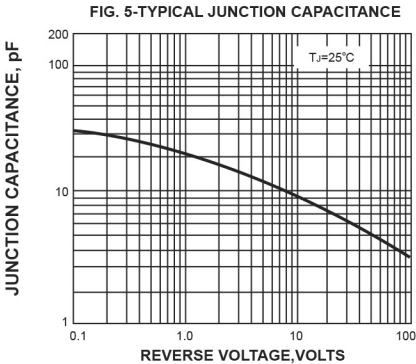
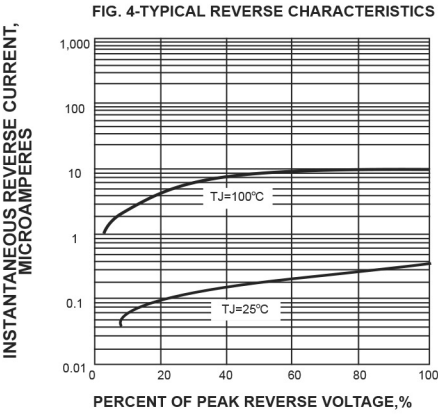
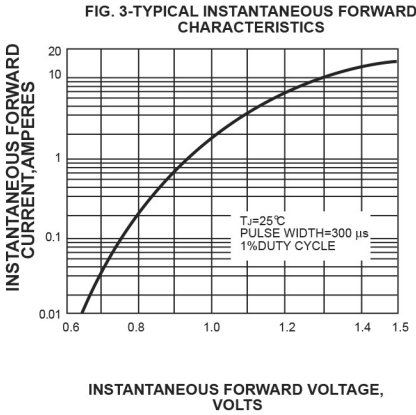
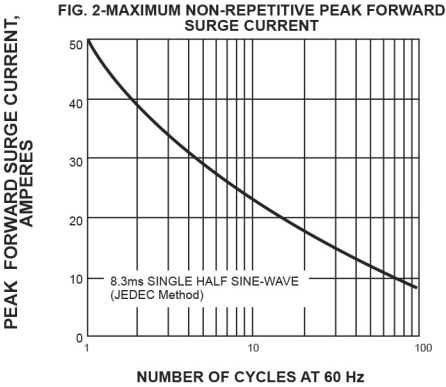
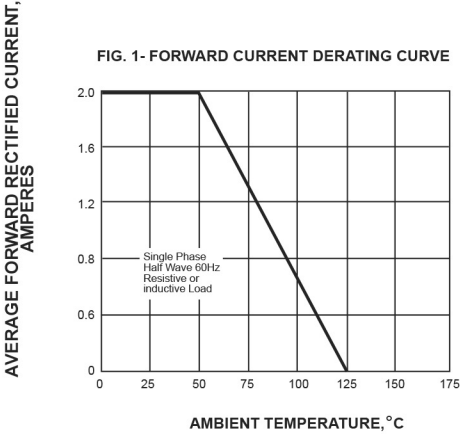
Maximum Ratings And Electrical Characteristics

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

| Parameter                                                                                                   | SYMBOLS           | MDD 2W005   | MDD 2W01 | MDD 2W02 | MDD 2W04 | MDD 2W06 | MDD 2W08 | MDD 2W10 | UNITS            |
|-------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------|----------|----------|----------|----------|----------|------------------|
| Marking Code                                                                                                |                   |             |          |          |          |          |          |          |                  |
| Maximum repetitive peak reverse voltage                                                                     | V <sub>RRM</sub>  | 50          | 100      | 200      | 400      | 600      | 800      | 1000     | V                |
| Maximum RMS voltage                                                                                         | V <sub>RMS</sub>  | 30          | 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 output rectified current at T <sub>c</sub> =55°C ( N o t e 1 )                      | I <sub>(AV)</sub> | 2.0         |          |          |          |          |          |          | A                |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed<br>on rated load (JEDEC Method)      | I <sub>FSM</sub>  | 50          |          |          |          |          |          |          | A                |
| Rating for Fusing(t<8.3ms)                                                                                  | I <sup>2</sup> t  | 10          |          |          |          |          |          |          | A <sup>2</sup> s |
| Maximum instantaneous forward voltage<br>drop per birdge element at 7.5A                                    | V <sub>F</sub>    | 1.0         |          |          |          |          |          |          | V                |
| Maximum DC reverse current<br>at rated DC blocking voltage<br>T <sub>A</sub> =25°C<br>T <sub>A</sub> =100°C | I <sub>R</sub>    | 10          |          |          |          |          |          |          | µA               |
|                                                                                                             |                   | 0.5         |          |          |          |          |          |          | mA               |
| Typical Thermal Capacitance                                                                                 | C <sub>J</sub>    | 15          |          |          |          |          |          |          | PF               |
| Typical Thermal Resistance (Note 2)                                                                         | R <sub>θJA</sub>  | 40          |          |          |          |          |          |          | °C/W             |
| Operating junction temperature range                                                                        | T <sub>J</sub>    | -55 to +125 |          |          |          |          |          |          | °C               |
| storage temperature range                                                                                   | T <sub>STG</sub>  | -55 to +150 |          |          |          |          |          |          | °C               |

NOTES:  
1.Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.  
2.Unit mounted on P.C. board with 0.22 " x 0.22 "(5.5x5.5mm) copper pads,0.375 "(9.5mm) lead length.

Ratings And Characteristic Curves



The curve above is for reference only.