



## SILICON BRIDGE RECTIFIERS

### Features

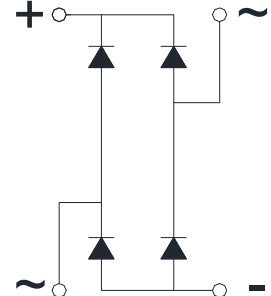
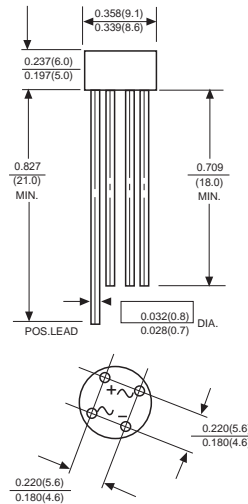
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds, 5 lbs. (2.3kg) tension

WOM



### 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** : 0.042 ounce, 1.2 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	MDD	MDD	MDD	MDD	MDD	MDD	UNITS
		W005	W01	W02	W04	W06	W08	W10	
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 (Note 2)	I <sub>(AV)</sub>	1.5							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	40							A
Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	10							A <sup>2</sup> s
Maximum instantaneous forward voltage drop per bridge element at 1.5A	V <sub>F</sub>	1.0							V
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	10							µA
		0.5							mA
Typical Thermal Capacitance	C <sub>J</sub>	25							PF
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	45							°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

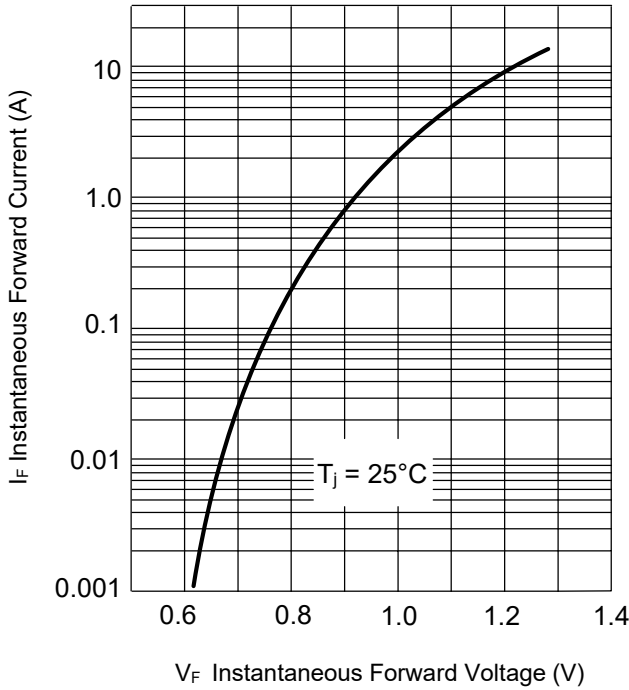
NOTES:

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.

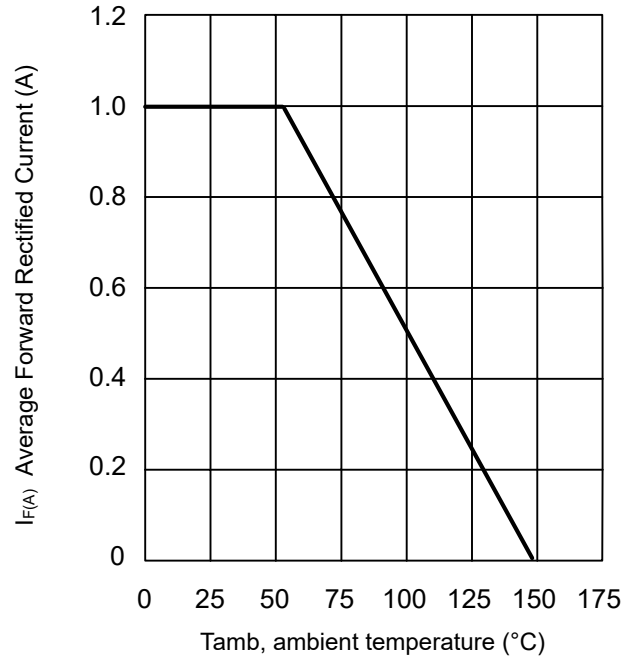


Ratings And Characteristic Curves

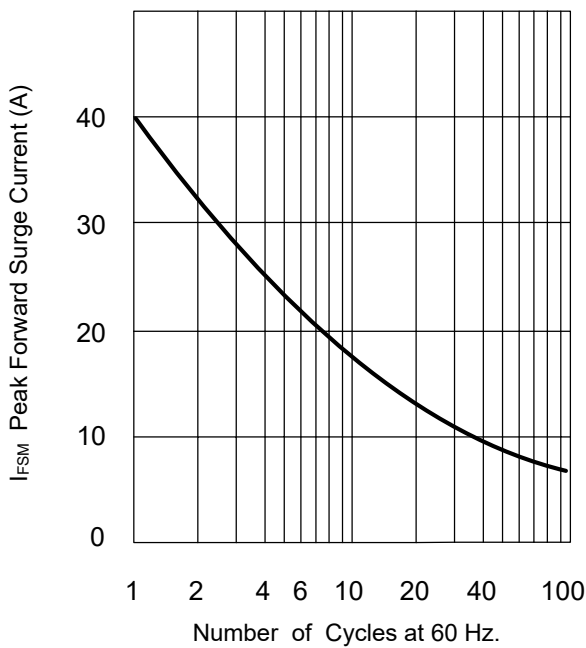
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



The curve above is for reference only.