

# W005M THRU W10M

## SINGLE PHASE SILICON BRIDGE RECTIFIERS

### FEATURES:

- Ideal for printed circuit board
- Low forward voltage drop
- Low leakage current

### MECHANICAL DATA

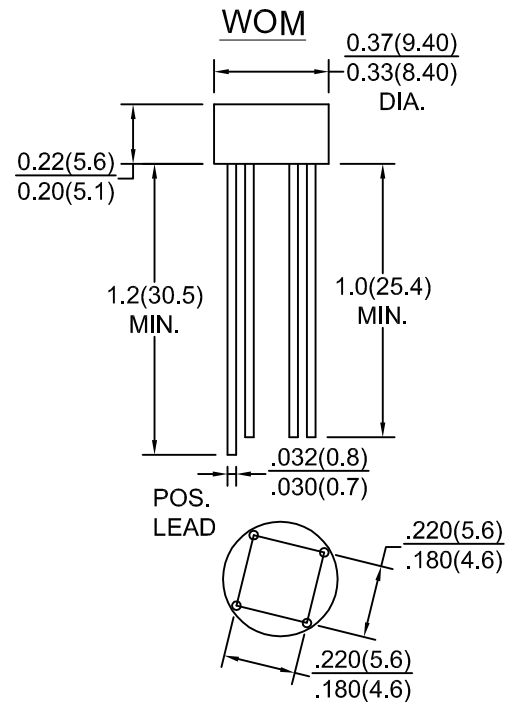
Case : Molded plastic body

Terminals :plated leads, solderable per MIL-STD-202,  
Method 208 guaranteed

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.07 grams



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20 %.

Characteristic	Symbol	W005 M	W01M	W02M	W04M	W06M	W08M	W10M	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375"(9.5mm) lead length at $T_a=50^\circ\text{C}$	$I_O$	1.5							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	$I_{FSM}$	50							Amps
Maximum instantaneous forward voltage drop per bridge element at 1.0 A	$V_F$	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$	10 500							$\mu\text{A}$
Operating temperature range	$T_j$	-65 to +125							$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-65 to +150							$^\circ\text{C}$

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

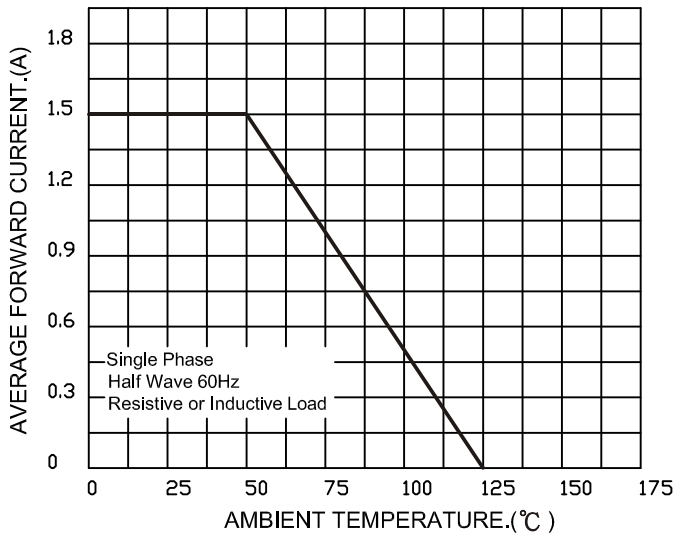


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

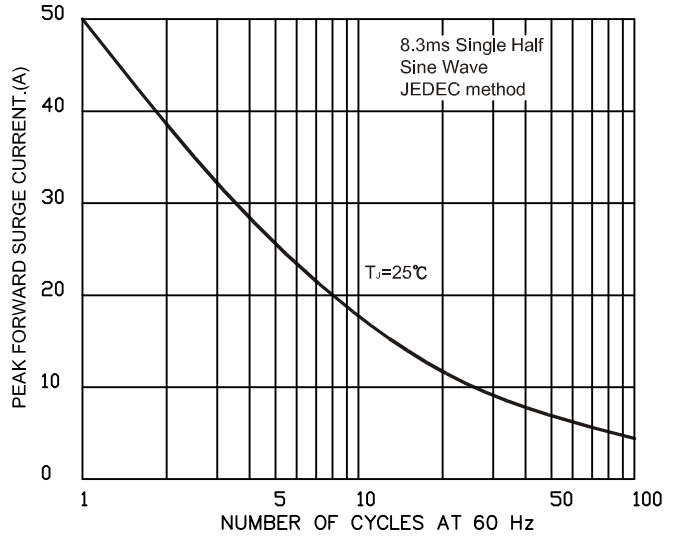


FIG.3-TYPICAL FORWARD CHARACTERISTICS

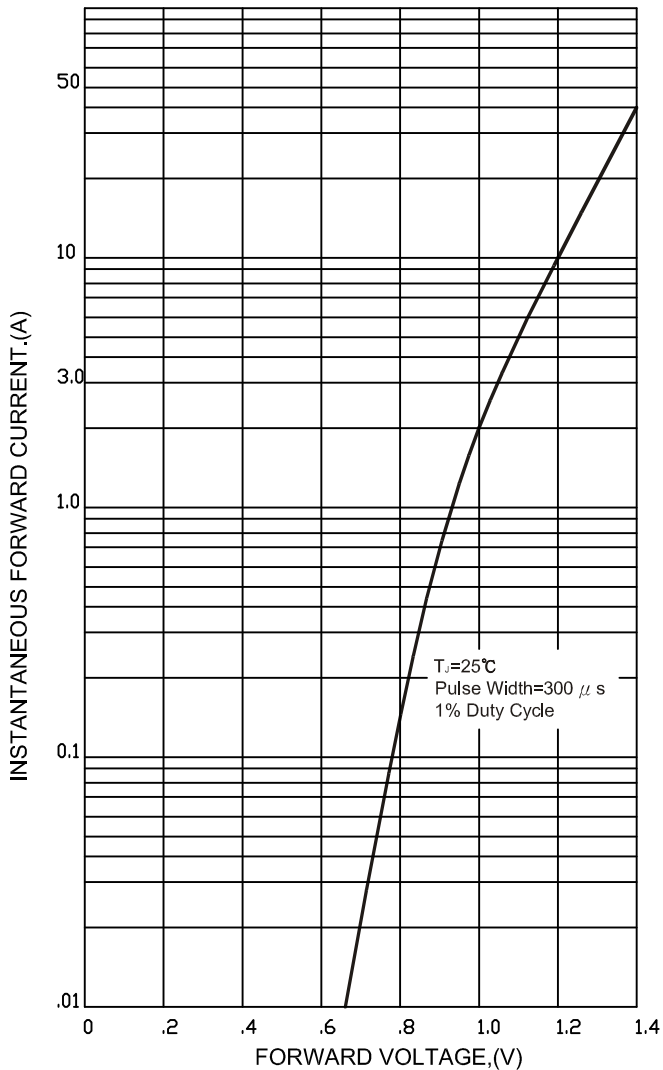


FIG.4-TYPICAL REVERSE CHARACTERISTICS

