

# SINGLE-PHASE BRIDGE RECTIFIER

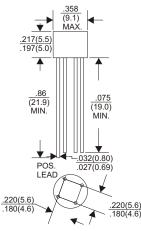
W005M - W10M VOLTAGE RAN	NGE 50 to 1000 Volts
CURRENT	1.5 Amperes

### FEATURES

- Glass Passivated Chip
- I This series is UL recognized under component index,file number E127707
- I High forward surge current capability
- I Ideal for printed circuit board
- High temperature soldering guaranteed: 260 °C/10 second, 0.375"(9.5mm) lead length at 5 lbs. (2.3kg) tension.

#### MECHANICAL DATA

- I Case: Molded plastic body
- Terminal: Lead solderable per MIL-STD-202E method 208C.
- I Polarity: Polarity symbols molded on case
- I Mounting position: Any
- Weight:0.042ounce, 1.2grams



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		SYMBOLS	W005M	W01M	W02M	W04M	W06M	W08M	W10M	UNITS
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS 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 Rectified Output Current, at	T <sub>A</sub> =25℃	I <sub>(AV)</sub>	1.5					Amps		
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	50						Amps	
Maximum Instantaneous Forward Voltage at 1.0A		$V_{\rm F}$	1.0						Volts	
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25$ °C	T	5.0						μAmps	
	$T_A=100$ °C	I <sub>R</sub>	0.5						mAmps	
Typical Junction Capacitance(Note1)		CJ	15			$\mathbf{P}^{\mathrm{F}}$				
Typical Thermal Resistance(Note2)		$R_{\;\theta\;JA}$	40			°C/W				
Operating Temperature Range		$T_{\rm J}$	-55 to +125		°C					
Storage Temperature Range		T <sub>STG</sub>	-55 to +150			°C				

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

2. Unit mounted on P.C. board with 0.22"×0.22"(5.5×5.5mm)copper pads,0.375"(9.5mm)lead length.



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RATINGS AND CHARACTERISTIC CURVES W005M - W10M

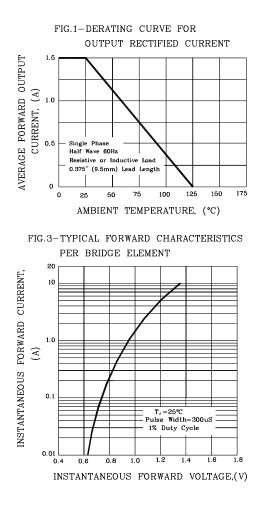
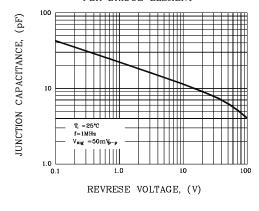


FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



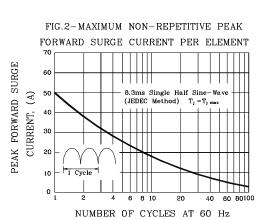
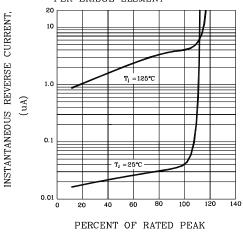


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



REVERSE VOLTAGE, (%)