



## MASTER INSTRUMENT CORPORATION

### SINGLE-PHASE BRIDGE RECTIFIER W005M THRU W10M

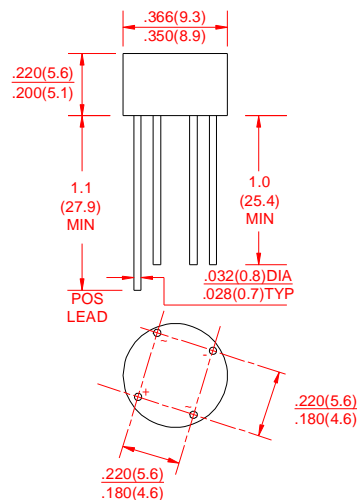
VOLTAGE RANGE 50 to 1000 Volts  
CURRENT 1.5 Amperes

#### FEATURES

- Low cost
- This series is UL recognized under component index, file number E127707
- High forward surge current capability
- 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

- Case: Molded plastic body
- Terminal: Lead solderable per MIL-STD-202E method 208C.
- Polarity: Polarity symbols molded on case
- 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 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°C	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 <sub>F</sub>	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	10							μAmps
	T <sub>A</sub> =100°C		0.5							mAmps
Typical Junction Capacitance(Note1)		C <sub>J</sub>	15							p <sup>F</sup>
Typical Thermal Resistance(Note2)		R <sub>θJA</sub>	40							°C/W
Operating Temperature Range		T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range		T <sub>STG</sub>	-55 to +150							°C
<b>NOTES:</b> 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 THRU W10M

