



MASTER INSTRUMENT CORPORATION

SINGLE-PHASE BRIDGE RECTIFIER W005M THRU W10M

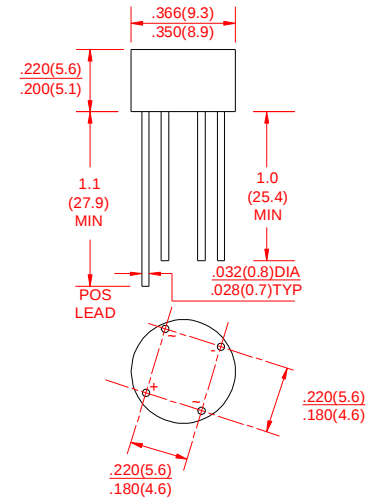
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 1.5 Amperes

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: 0.042ounce, 1.2grams



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 _{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 Output Current, at	T _A =25 °C	I _(AV)	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 at 1.0A		V _F	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25 °C	I _R	10							μAmps
	T _A =100 °C		0.5							mAmps
Typical Junction Capacitance(Note1)		C _J	15							p ^F
Typical Thermal Resistance(Note2)		R _{θJA}	40							°C/W
Operating Temperature Range		T _J	-55 to +125							°C
Storage Temperature Range		T _{STG}	-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 THRU W10M

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

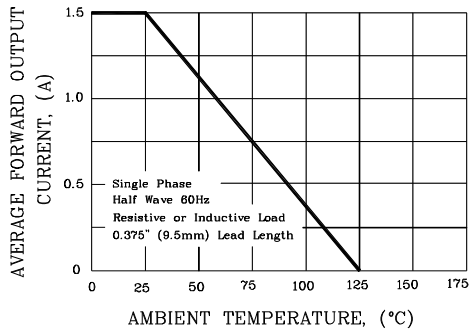


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER ELEMENT

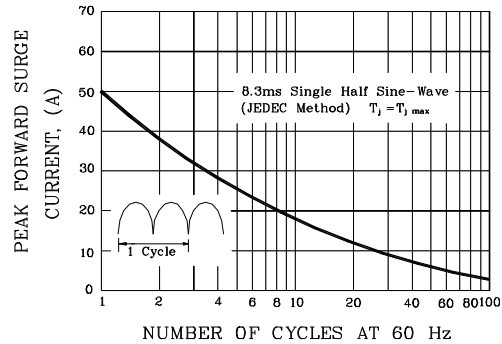


FIG.3-TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT

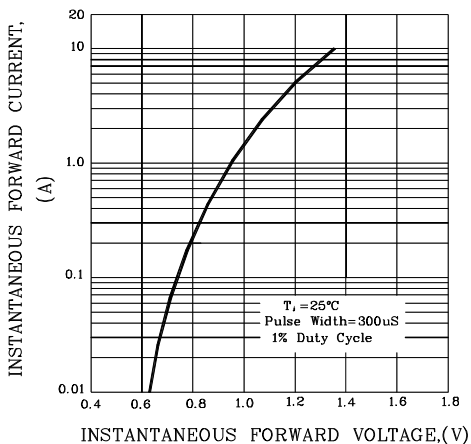


FIG.4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

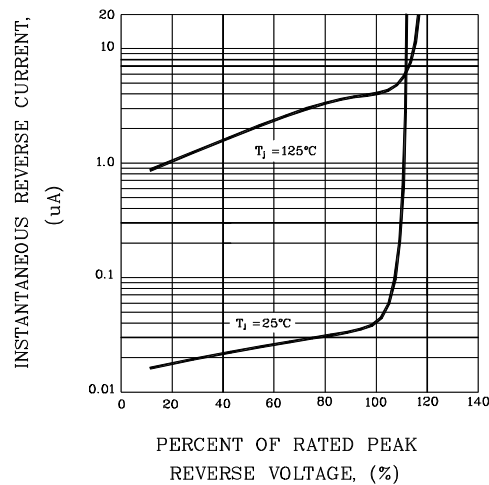


FIG.5-TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT

