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MASTER INSTRUMENT CORPORATION

SINGLE-PHASE BRIDGE RECTIFIER 2W005M THRU 2W10M RC201 THRU RC207

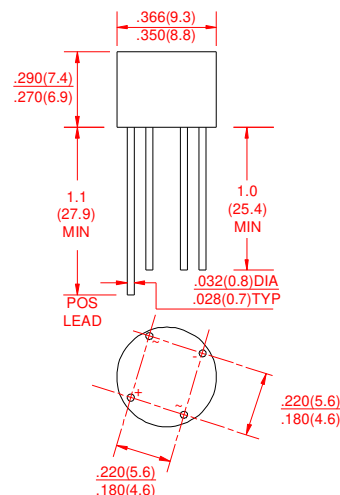
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 1.5 Amperes

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: 0.05ounce, 1.42grams



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	2W005M RC201	2W01M RC202	2W02M RC203	2W04M RC204	2W06M RC205	2W08M RC206	2W10M RC207	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℃	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	
Rating for Fusing(t<8.3ms)	I ² T	10							A ² S	
Maximum Instantaneous Forward Voltage at 1.0A	V _F	1.0							Volts	
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25℃	I _R	5.0							μAmps
	T _A =100℃		0.5							mAmps
Typical Junction Capacitance(Note1)	C _J	15							p ^F	
Typical Thermal Resistance(Note2)	R * J _A	40							℃/W	
Operating Temperature Range	T _J	-55 to +150							℃	
Storage Temperature Range	T _{STG}	-55 to +150							℃	
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 2W005M THRU 2W10M

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

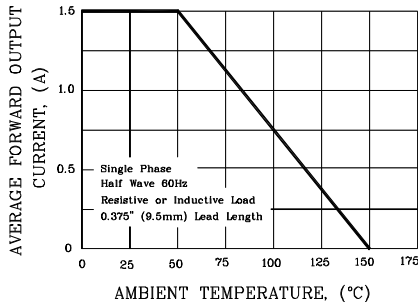


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER ELEMENT

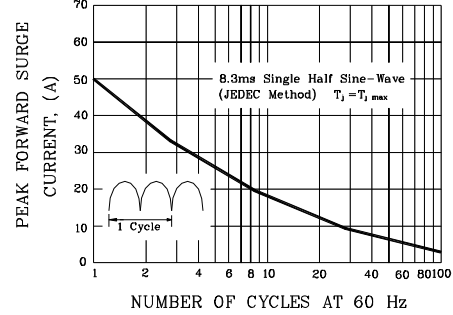


FIG.3-TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT

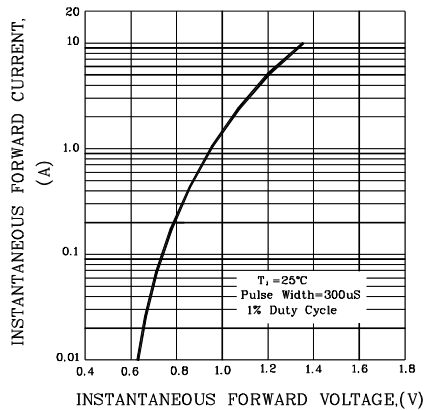


FIG.4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

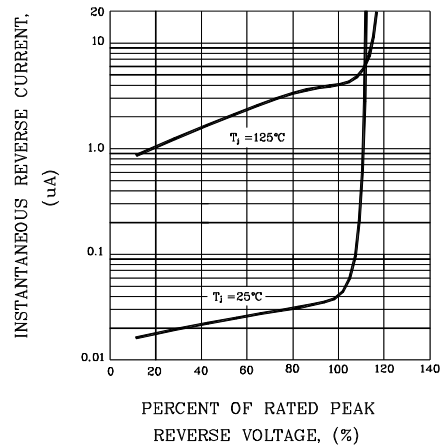


FIG.5-TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT

