

W005M THRU W10M

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 1.5A

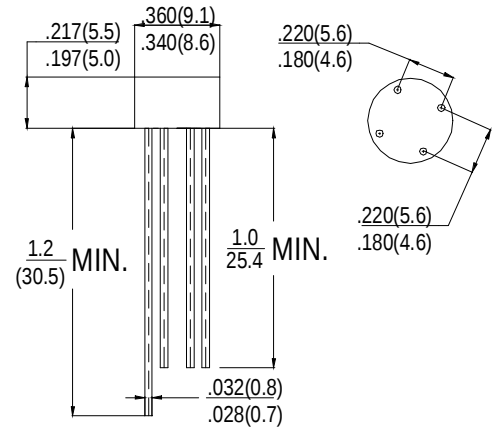
FEATURES

- Surge overload ratings-50 Amperes
- Good for printed circuit board assembly

MECHANICAL DATA

- **Case:** Plastic shell with plastic encapsulation
- **Epoxy:** UL 94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** As marked
- **Mounting position:** Any
- **Weight:** 1.20 grams

WOM



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%.

		SYMBOL	W005M	W01M	W02M	W04M	W06M	W08M	W10M	units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward rectified Output Current at T _A =25°C		I_o	1.5							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I_{FSM}	50							A
Maximum Forward Voltage Drop per element at 1.0A DC		V_F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@ T _A =25°C	I_R	10							μA
	@ T _A =100°C		500							
I ² t Rating for Fusing (t < 8.3ms)		I²t	10							A²S
Typical Junction Capacitance (Note 1)		C_J	24							pF
Typical Thermal Resistance (Note 2)		R_{θJA}	36							°C/W

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

2. Thermal Resistance from Junction to lead mounted on P.C.B with 0.5×0.5"(13×13mm) copper pads