W005M THRU W10M

SINGLE-PHASE SILICON BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 1.5 AMPERE

FEATURES

· Surge overload rating: 40 amperes peak

· Ideal for printed circuit board

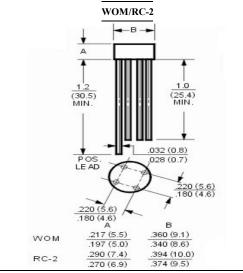
· Reliable low cost construction utilizing molded plastic technique

· High temperature soldering guaranteed: 250° C/ 10SEC/ 9.5mm lead length at 2.3kg tension

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.05ounce, 1.3gram



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 Recurrent 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 Current .375"(9.5mm) Lead Length at T _A =50℃	I _(AV)				1.5				Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 40							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 1.5A DC and 25℃	$\mathbf{V_F}$	1.0							Volts
Maximum Reverse Current at T _A =25℃		5.0							uAmp
at Rated DC Blocking Voltage T _A =100℃	I_R	500							
Typical Junction Capacitance (Note 1)	C_{J}	24							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	36							°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	13							°C/W
Operating and Storage Temperature Range	T _J , Tstg				-55 to +15	0			င

NOTES

- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.





RATINGS AND CHARACTERISTIC CURVES

