2W005M THRU 2W10M

SINGLE-PHASE SILICON BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 2.0 AMPERE

FEATURES

· Surge overload rating: 50 amperes peak

· Ideal for printed circuit board

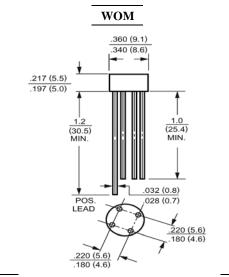
· Reliable low cost construction utilizing molded plastic technique

· 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 $25\,^\circ\!\!\!\!\mathrm{C}$ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	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)	2.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I_{FSM} 50							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 2.0A DC and 25℃	$\mathbf{V_F}$	1.1							Volts
Maximum Reverse Current at T _A =25℃	_	10.0							uAmp
at Rated DC Blocking Voltage T _A =100℃	I_R		500						
Typical Junction Capacitance (Note 1)	C_{J}	40 20						pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	15							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125							°C

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

