2W005M THRU 2W10M

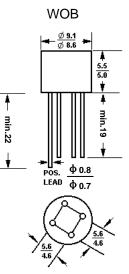
Single-phase Silicon Bridge Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 2 A

Features

- Ideal for printed circuit board
- Reliable low cost construction technique results
 in inexpensive product
- High temperature soldering guaranteed: 250 °C/10 seconds / 0.375" (9.5 mm) lead length at 5 lbs (2.3kg) tension.

Mechanical Data

- Case: Molded plastic
- Lead: Solder plated
- · Polarity: As marked



Dimensions in mm

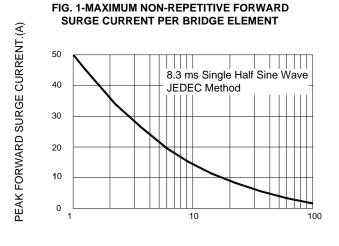
Absolute Maximum Ratings and Characteristics

Rating at $T_a = 25$ °C ambient temperature unless otherwise specified. Single-phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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 Current at $T_a = 50 ^{\circ}C$	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							A
Maximum Instantaneous Forward Voltage 2A	V _F	1.1							V
Maximum DC Reverse Current $T_a = 25 ^{\circ}C$ at Rated DC Blocking Voltage $T_a = 100 ^{\circ}C$	I _R	10 500							μA
Typical Thermal Resistance 1)	$R_{\theta JA}$	40							°C/W
	$R_{ extsf{ heta}JL}$	15							°C/W
Operating temperature Range	Tj	- 55 to + 125							°C
Storage Temperature Range	T _{stg}	- 55 to + 150							°C

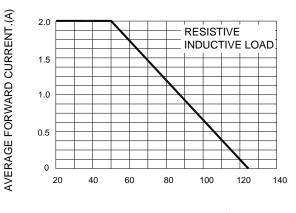
¹⁾ Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5 mm) lead length for P.C.B. mounting.





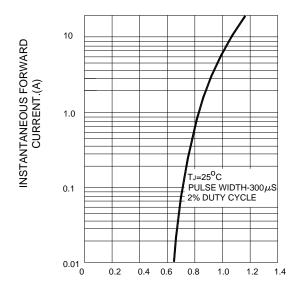
NUMBER OF CYCLES AT 60Hz

FIG. 2-MAXIMUM CURRENT DERATING CURVE OUTPUT RECTIFIED CURRENT



AMBIENT TEMPERATURE,°C

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

