2W005M THRU 2W10M

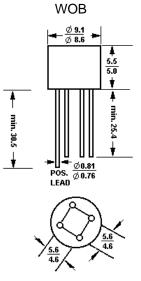
Single-phase Silicon Bridge Rectifiers Reverse Voltage – 50 to 1000 V Forward Current – 2 A

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 plasticLead: Solder platedPolarity: As marked



Dimensions in mm

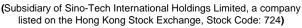
Absolute Maximum Ratings and Characteristics

Rating at 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 $T_A = 50$ °C	I _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							А
Maximum Instantaneous Forward Voltage 2A	V _F	1.1							V
Maximum DC Reverse Current $T_A = 25$ °C at Rated DC Blocking Voltage $T_A = 100$ °C	I _R	10 500							μA
Typical Thermal Resistance 1)	$R_{ heta JA} \ R_{ heta JL}$	40 15							°C/W
Operating temperature Range	T _j	- 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.









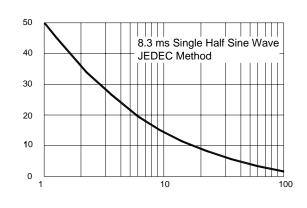






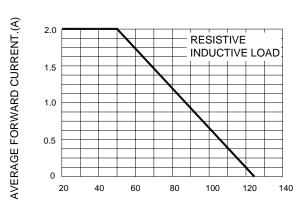
PEAK FORWARD SURGE CURRENT.(A)

FIG. 1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT



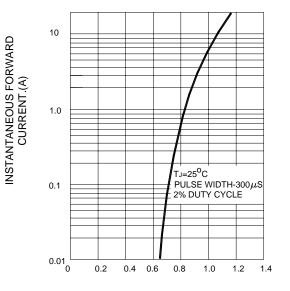
NUMBER OF CYCLES AT 60Hz

FIG. 2-MAXIMUM CURRENT DERATING CURVE OUTPUT RECTIFIED CURRENT



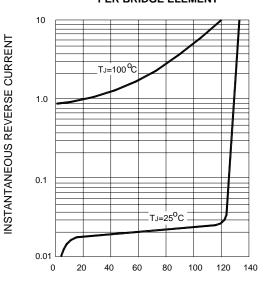
AMBIENT TEMPERATURE, °C

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



PERCENT OF RATED PEAK REVERSE VOLTAGE.(%)



SEMTECH ELECTRONICS LTD.

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