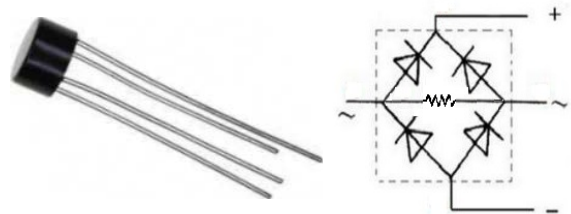


2.0A SINGLE-PHASE SILICON BRIDGE RECTIFIER - 50V~1000V

PRIMARY CHARACTERISTICS	
V_{RRM}	50V~1000V
$I_{(AV)}$	2.0A
V_F	1.1V
$T_{J,Max}$	125°C

SCHMATIC DIAGRAM
WOM PACKAGE



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/10 Sec
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic,WOM
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

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	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	Unit
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 $T_A=50^\circ C$	$I_{(AV)}$	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							Amp
Maximum Forward Voltage at 2.0A DC and 25°C	V_F	1.1							Volts
Maximum Reverse Current at Rated DC at $T_A=25^\circ C$ Blocking Voltage $T_A=100^\circ C$	I_R	5.0 500							uAmp
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, T_{stg}	-55 to +125							°C

NOTES:

- 1- Measured at 1 MHz 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

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

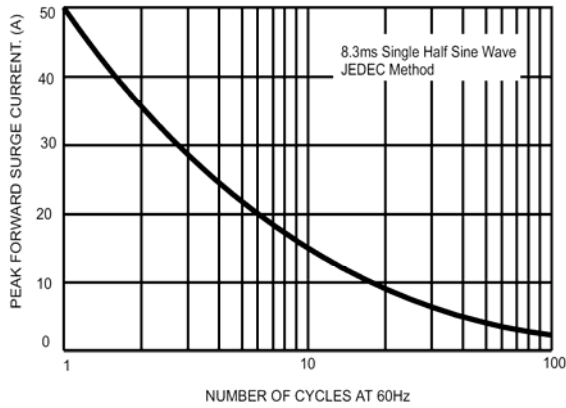


FIG.2- MAXIMUM CURRENT DERATING CURVE OUTPUT RECTIFIED CURRENT

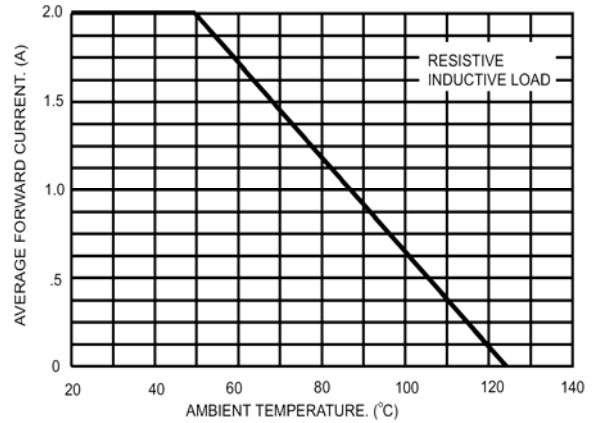


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

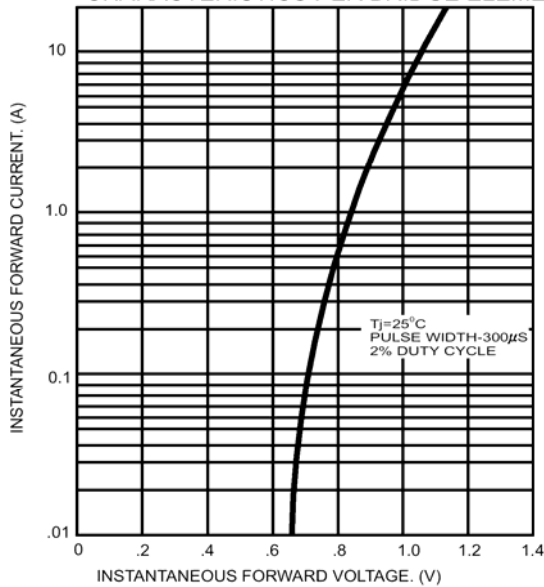
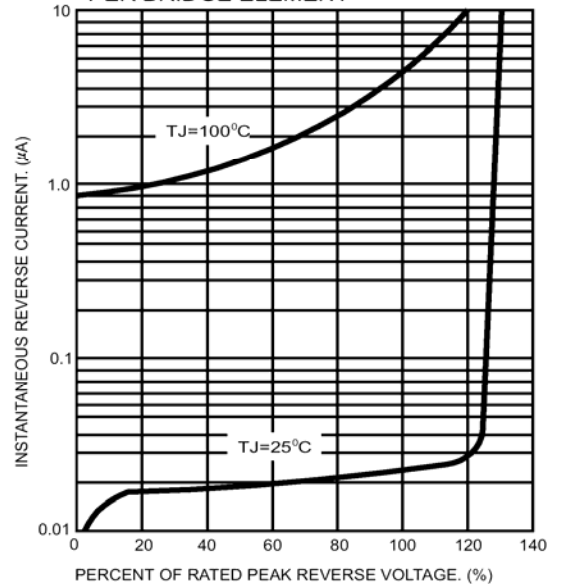
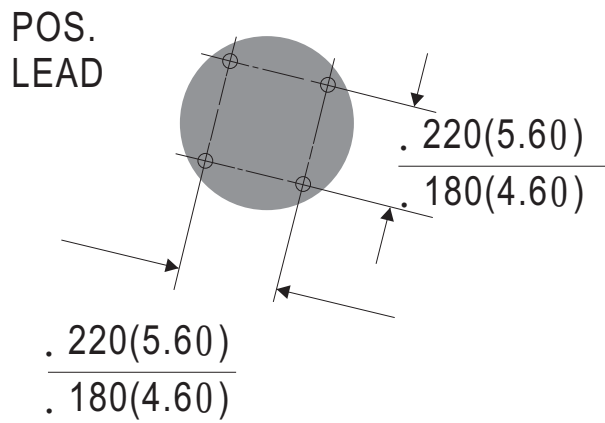
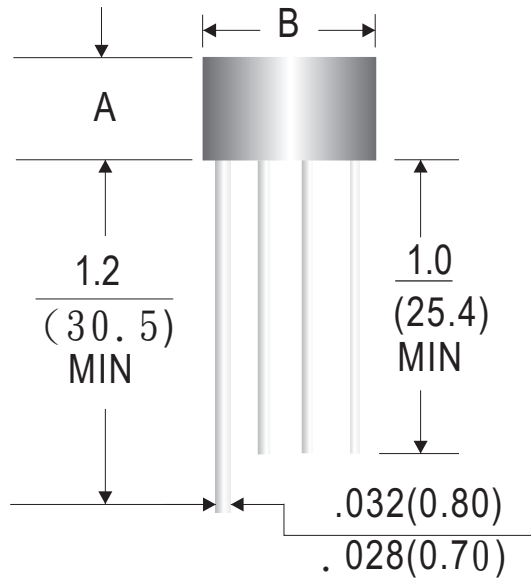


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Outline Drawing

WOM



A	B
$\frac{.217(5.50)}{.197(5.00)}$	$\frac{.360(9.10)}{.340(8.60)}$

Dimensions in inches and (millimeters)

Rev.C

Ordering Information:

Device PN	Packing
Part Number-B ⁽¹⁾ G ⁽²⁾ WS ⁽³⁾	Bulk Packing:500pcs/Bag

Note: (1) Packing code: B is Bulk Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

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