



**Glass Passivated Single-Phase Bridge Rectifier**  
**Reverse Voltage 50 to 1000Volts , Forward Current 2.0 Amperes**

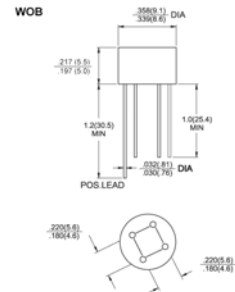
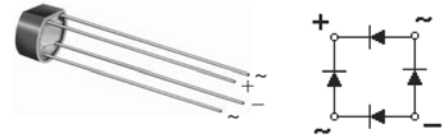
**Features**

- ◆ Ideal for printed circuit boards
- ◆ Typical  $I_R$  less than 0.5  $\mu$ A
- ◆ High case dielectric strength
- ◆ High surge current capability
- ◆ Solder Dip 260 °C, 40 seconds



**Mechanical Data**

- ◆ Case: WOB
- ◆ Epoxy meets UL-94V-0 Flammability rating
- ◆ Terminals: Silver plated (E4 Suffix) leads, solderable per J-STD-002B and JESD22-B102D
- ◆ Polarity: As marked on body



Package outline dimensions in inches (millimeters)

**Typical Applications**

General purpose use in ac-to-dc bridge full wave rectification for Power Supply, Adapter, Charger, lighting Ballaster on Consumers and Home Appliances applications

**Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	2W005	2W01	2W02	2W04	2W06	2W08	2W10	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 0.375" (9.5mm) lead length (See Fig.2 and Fig.1)	$I_{F(AV)}$	2.0							Amps	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50.0							Amps	
Rating for fusing ( $t < 8.3ms$ )	$I^2t$	15.0							A <sup>2</sup> sec	
Max. instantaneous forward voltage drop per element at 1.0A	$V_F$	1.1							Volts	
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage per element	$I_R$	10.0 500 ( $T_A=100^\circ C$ )							$\mu$ A	
Typical junction capacitance per element (Note 1)	$C_J$	40				20			pF	
Typical thermal resistance per leg (Note 2)	$R_{\theta JA}$ $R_{\theta BL}$	40 15								$^\circ C/W$
Operating temperature range	$T_J$	-55 to +125							$^\circ C$	
Storage temperature range	$T_{STG}$	-55 to +150							$^\circ C$	

- Notes**
1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts
  2. Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5 mm) lead length P.C.B. mounting



### RATINGS AND CHARACTERISTIC CURVES

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

