



SHANGHAI SUNRISE ELECTRONICS CO., LTD.

**2W005 THRU 2W10**  
**SINGLE PHASE SILICON**  
**BRIDGE RECTIFIER**

**TECHNICAL**  
**SPECIFICATION**

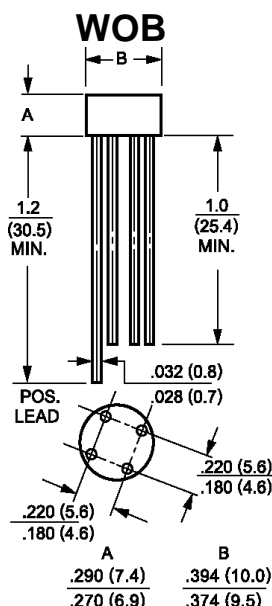
**VOLTAGE: 50 TO 1000V CURRENT: 2.0A**

**FEATURES**

- Ideal for printed circuit board
- Surge overload rating: 60A peak
- High case dielectric strength
- High temperature soldering guaranteed:  
250°C/10sec/0.375"(9.5mm) lead length  
at 5 lbs tension

**MECHANICAL DATA**

- Terminal: Plated leads solderable per  
MIL-STD 202E, method 208C
- Case: UL-94 Class V-O recognized flame  
retardant epoxy
- Polarity: Polarity symbol marked on body
- Mounting position: Any



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	2W 005	2W 01	2W 02	2W 04	2W 06	2W 08	2W 10	UNITS
Maximum Repetitive 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 ( $T_a=25^{\circ}C$ )	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	$I_{FSM}$	60							A
Maximum Instantaneous Forward Voltage (at forward current 2.0A DC)	$V_F$	1.0							V
Maximum DC Reverse Current (at rated DC blocking voltage) $T_a=25^{\circ}C$ $T_a=100^{\circ}C$	$I_R$	10.0 500							$\mu A$ $\mu A$
Operating Temperature Range	$T_J$	-55 to +125							$^{\circ}C$
Storage Temperature	$T_{STG}$	-55 to +150							$^{\circ}C$