



# 2W005 THRU 2W10

## SINGLE PHASE 2.0 AMPS. SILICON BRIDGE RECTIFIERS

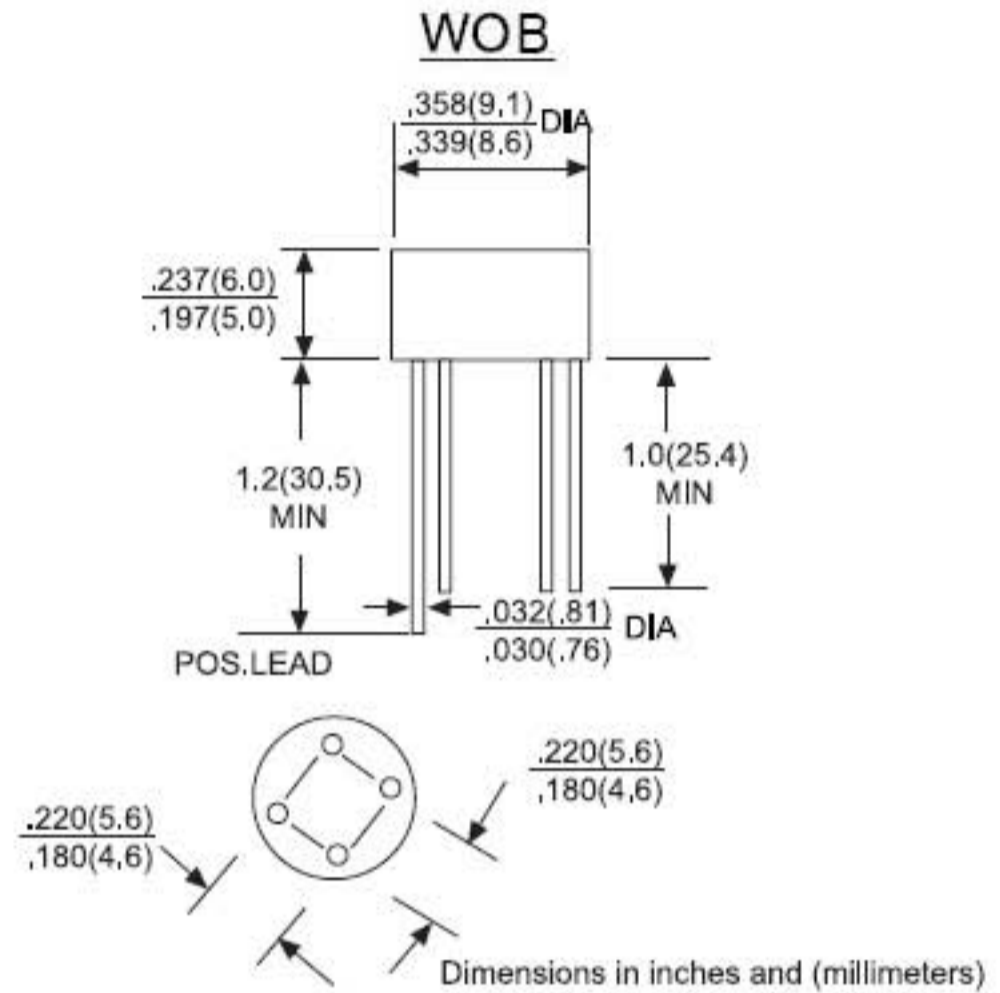
**Voltage Range**  
50 to 1000 Volts  
**Current**  
2.0 Amperes

### FEATURES

- UL Recognized File # E-230084
- Surge overload ratings to 50 amperes peak
- Ideal for printed circuit board  
Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:  
250°C / 10 seconds / 0.375"(9.5mm)  
lead length at 5 lbs., (2.3Kg ) tension

### Mechanical Data

- Case: Molded plastic
- Lead: Solder plated
- Polarity: As marked
- Weight: 1.10 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number		2W005	2W01	2W02	2W04	2W06	2W08	2W10	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA = 50°C	IF(AV)	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	50							A
Maximum Instantaneous Forward Voltage Drop Per Leg @2.0A	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	10 500							uA uA
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	TSTG	-55 to +150							°C

# RATING AND CHARACTERISTIC CURVES 2W005 THRU 2W10



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

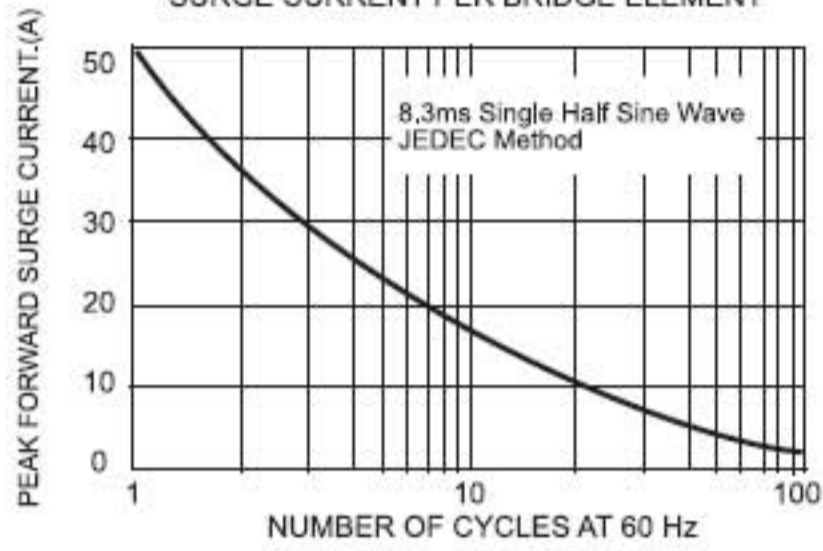


FIG.2 - MAXIMUM CURRENT DERATING CURVE OUTPUT RECTIFIED CURRENT

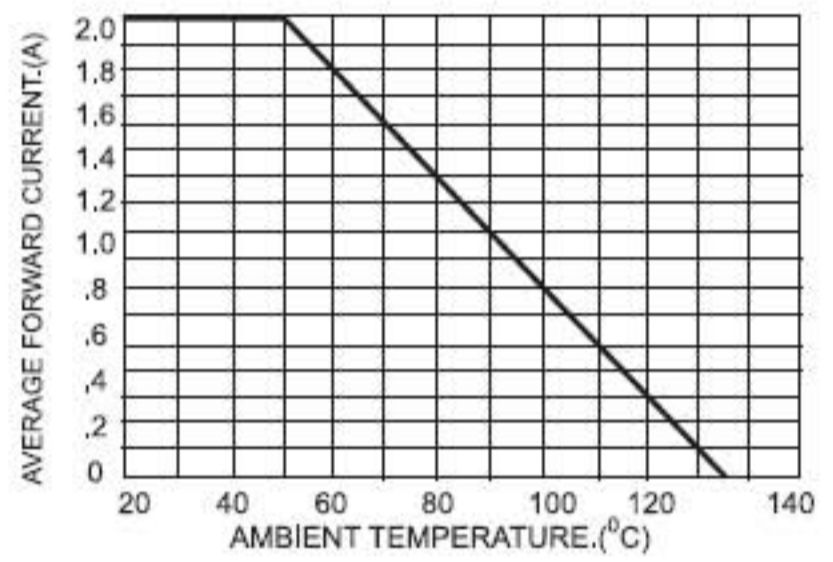


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

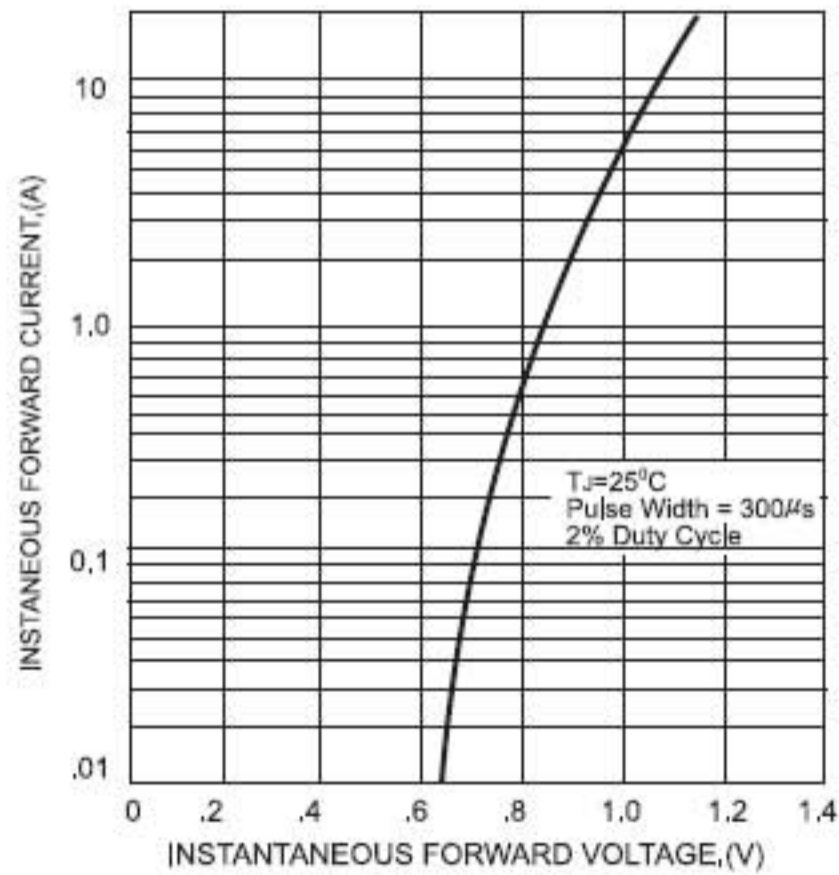


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

