

W005 THRU W10

**SINGLE PHASE 1.0 AMPS.
SILICON BRIDGE RECTIFIERS**

Voltage Range - 50 to 1000 Volts
Current - 1.0 Amperes



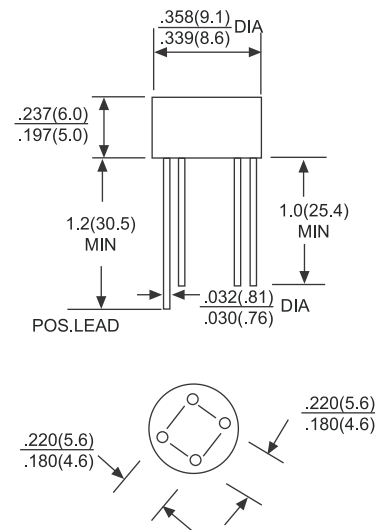
FEATURES

- Surge overload ratings to 40 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

WOM



Dimensions in inches and (millimeters)

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 current derate by 20%.

Type Number		W005	W01	W02	W04	W06	W08	W10	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)	1.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	40							A
Maximun Instantaneous Forward Voltage Drop Per Leg@1.0A	VF	1.0							V
Maximun DC Reverse Current at Rated DC Blocking Voltage TA = 25°C TA = 100°C	IR	10 500							uA uA
Operating Temperature Range	TJ	-55 to+125							°C
Storage Temperature Range	TSTG	-55 to+150							°C

RATINGS AND CHARACTERISTIC CURVES W005 THUR W10

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

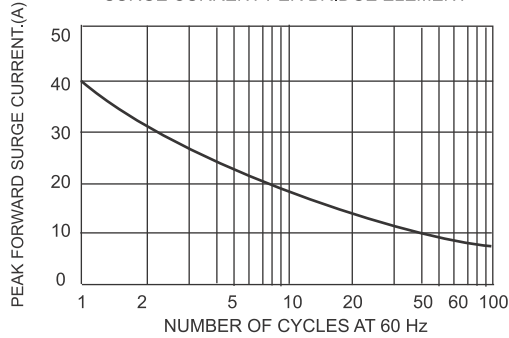


FIG.2 - MAXIMUM FORWARD CURRENT DERATING CURVE

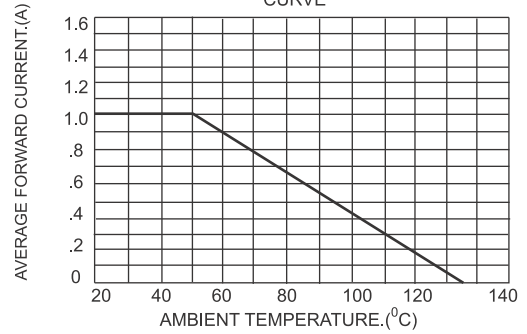


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

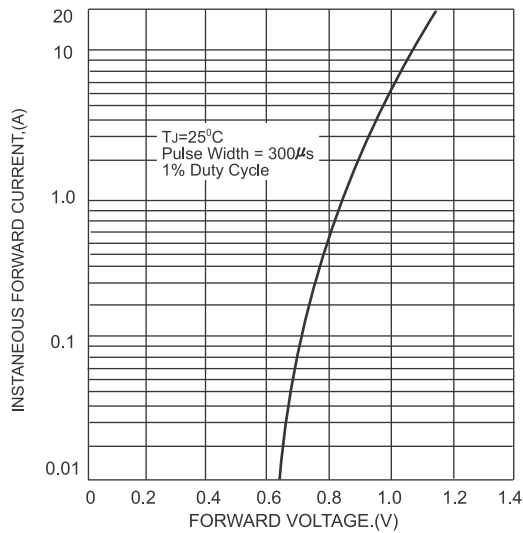


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

