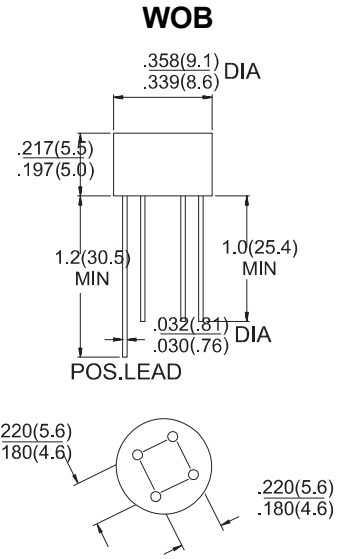


1.5A BRIDGE RECTIFIER
FEATURES

- High surge dielectric strength
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product

MECHANICAL DATA

- Case: WOB
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Terminals: Tin plated, solderable per MIL-STD-202, Method 208
- Weight: 1.1 grams (approximate)


Dimensions in inches and (millimeters)
MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	W005M	W01M	W02M	W04M	W06M	W08M	W10M	Unit
Maximum recurrent 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	
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	
Maximum average forward rectified current @ $T_A=50^{\circ}\text{C}$	$I_{(AV)}$	1.5							A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	40							
Typical thermal resistance (note 1)	$R_{\theta JA}$	36							$^{\circ}\text{C/W}$
	$R_{\theta JL}$	13							
Operating temperature range	T_J	-55 to +125							$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150							$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Max.	Unit	Conditions
Instantaneous forward voltage	V_F	1.0	V	$I_F=1.5\text{A}$
DC reverse current	I_R	10	μA	$V_R=V_{DC}$
		500		$V_R=V_{DC}, T_A=100^{\circ}\text{C}$

Note:

1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B, 0.375" (9.5mm) lead lengths with 0.4 x 0.4" (10 x 10mm) copper pads.
2. Single phase, half wave, 60 Hz, resistive or inductive load.
3. For capacitive load, derate current by 20%

1.5A BRIDGE RECTIFIER

Typical Characteristics

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

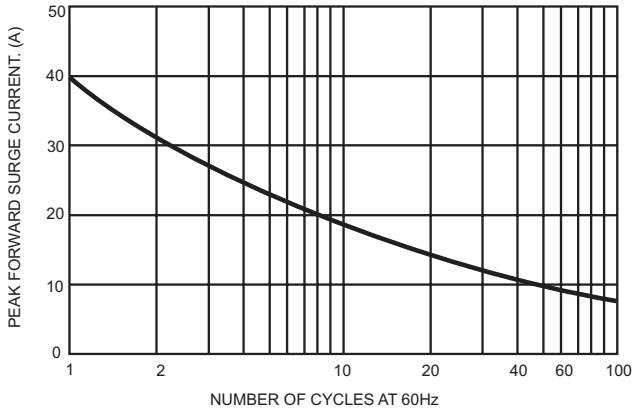


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

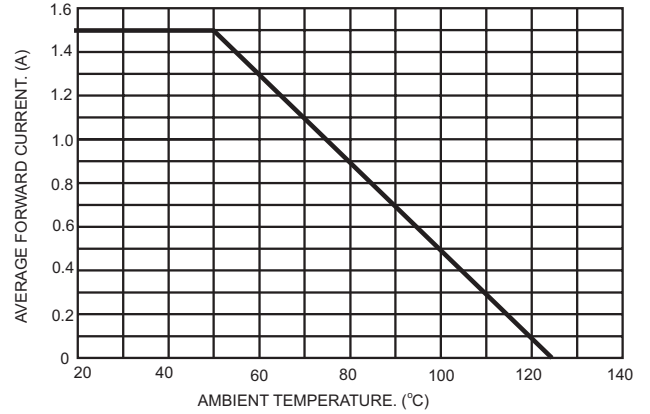


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

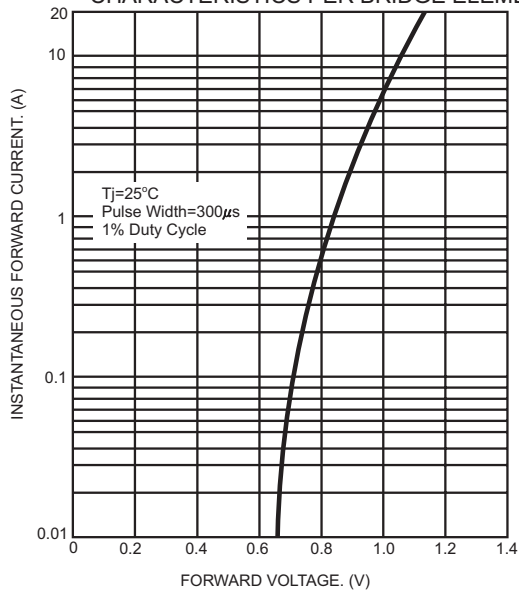


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

