

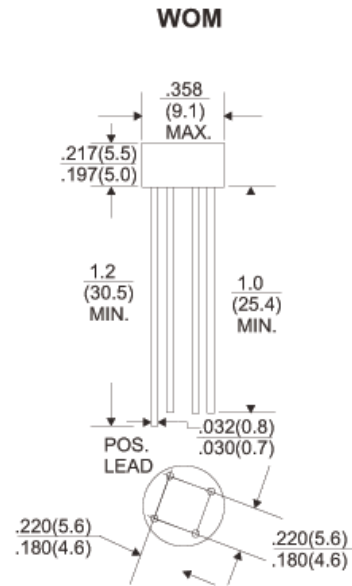
# SINGLE-PHASE SILICON BRIDGE

## W005M THRU W10M SERIES 50 to 1000 V 1.5 A

### FEATURES

- High reverse voltage to 1000V
- Surge overload ratings to 50 amperes peak
- Good for printed circuit board assembly
- Mounting position: Any
- Weight: 1.20 grams

### MECHANICAL DATA



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, derate current by 20%.

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

	Symbol	W005M	W01M	W02M	W04M	W06M	W08M	W10M	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 Output Current at @ $T_A=25^\circ\text{C}$	$I_o$	1.5							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	50							Amp
Maximum DC Forward Voltage drop per element at 1.0A DC	$V_F$	1.0							Volts
Maximum DC Reverse Current at rated @ $T_A=25^\circ\text{C}$ DC Blocking Voltage Per Element @ $T_A=125^\circ\text{C}$	$I_R$	10 1							$\mu\text{Amp}$
$I^2 t$ Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2 t$	3.7							$\text{A}^2\text{S}$
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

### NOTES:

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### RATINGS AND CHARACTERISTIC CURVES (W005M THRU W10M)

Fig.1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

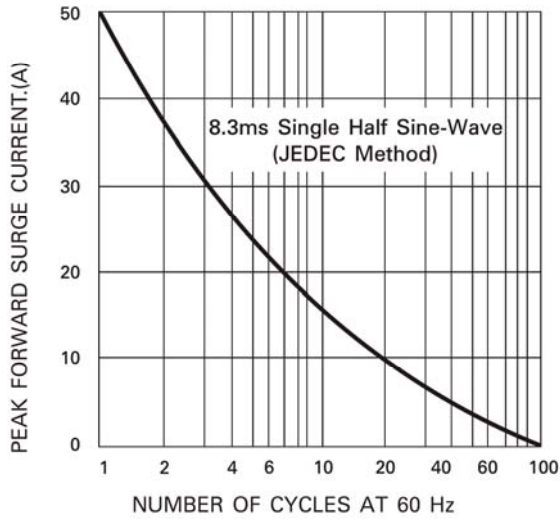


Fig.2 - TYPICAL FORWARD CURRENT DERATING CURVE

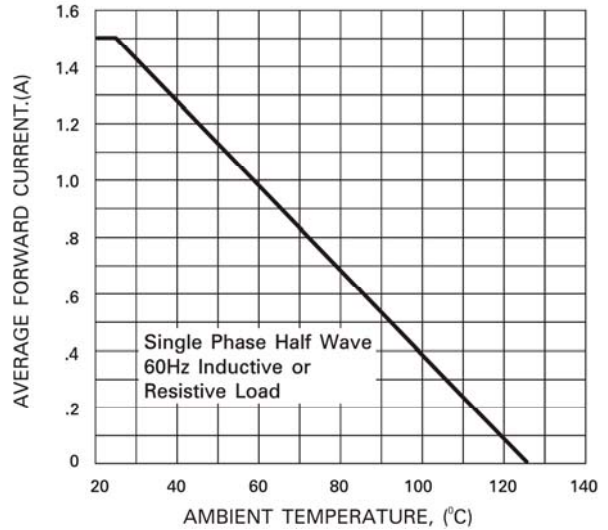


Fig.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

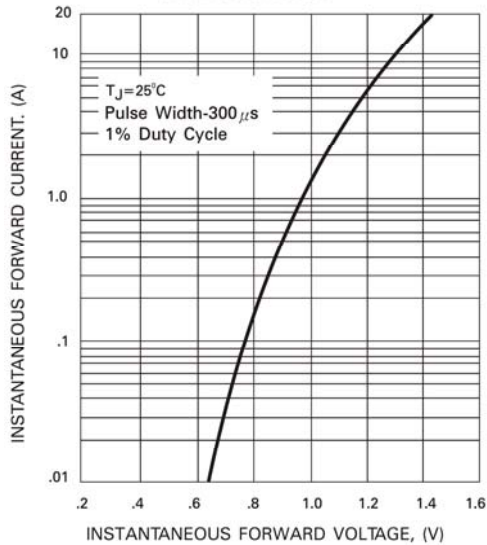


Fig.4 - TYPICAL REVERSE CHARACTERISTICS

