

T-23-05

**WL005M THRU WL10M**

1.0 AMPERE MINIATURE SINGLE PHASE SILICON BRIDGE

**GENERAL INSTRUMENT**



**FEATURES**

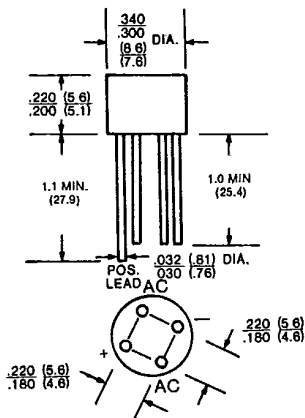
- This series is UL recognized under component index, file number E54214
- Plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High case dielectric strength
- Typical  $I_n$  less than  $.1\mu A$
- High overload surge capability
- Ideal for printed circuit board
- High temperature soldering guaranteed:  $265^\circ C/10$  seconds/.375" (9.5mm) lead length/5 lbs., (2.3kg) tension

**MECHANICAL DATA**

Case: Reliable low cost construction utilizing molded plastic technique  
 Terminals: Leads solderable per MIL-STD-202, Method 208  
 Mounting position: Any  
 Weight: 0.05 ounces, 1.3 grams

**VOLTAGE RANGE**  
50 to 1000 Volts

**CURRENT**  
1.0 Ampere



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at  $25^\circ C$  ambient temperature unless otherwise specified.  
 60Hz, resistive or inductive load  
 For capacitive load, derate current by 20%.

	WL005M	WL01M	WL02M	WL04M	WL06M	WL08M	WL10M	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	$V_{RRM}$
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	$V_{RMS}$
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	$V_{DC}$
Maximum Average Forward Rectified Current .375", 9.5mm lead lengths at $T_A=50^\circ C$	1.0							$A_{(AV)}$
Peak Forward Surge Current, single sine-wave superimposed on rated load (JEDEC Method)	30.0							$A_{pk}$
I <sup>2</sup> t Rating for fusing ( $t \leq 8.35ms$ )	5.0							$A^2s$
Maximum Instantaneous Forward Voltage Drop per element at 1.0A	1.2							$V_{pk}$
Maximum Reverse Current at Rated DC Blocking Voltage per element	10.0 1.0							$\mu A$ mA
Typical Junction Capacitance per element (Note 1)	24.0							pF
Maximum Thermal Resistance $\theta_{JA}$ (Note 2)	60.0							$^\circ C/W$
Operating Temperature Range $T_A$	-50 to +125							$^\circ C$
Storage Temperature Range $T_{stg}$	-50 to +150							$^\circ C$

NOTES:  
 1. Measured at 10MHz and applied reverse voltage of 4.0 volts.  
 2. Thermal Resistance from junction to ambient at .375", 9.5mm lead length on P.C. Board mounting.

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**RATING AND CHARACTERISTIC CURVES  
WL005M THRU WL10M SERIES**

