

T-23-05

WL005M THRU WL10M

1.0 AMPERE MINIATURE SINGLE PHASE SILICON BRIDGE

**GENERAL
INSTRUMENT**



FEATURES

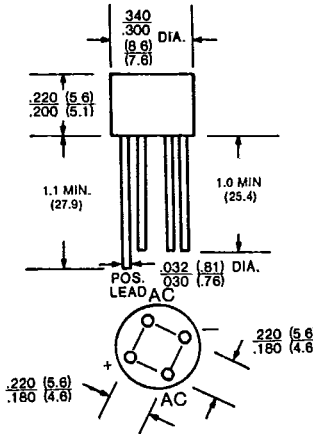
- This series is UL recognized under component index, file number E54214
- Plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High case dielectric strength
- Typical I_n less than $.1\mu A$
- High overload surge capability
- Ideal for printed circuit board
- High temperature 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 ² t Rating for fusing ($t < 8.35ms$)	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							μA
	1.0							mA
Typical Junction Capacitance per element (Note 1)	24.0							pF
Maximum Thermal Resistance θ_{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.

T-23-05

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

