

T-23-05

WL005M THRU WL10M

1.0 AMPERE MINIATURE SINGLE PHASE SILICON BRIDGE

GENERAL
INSTRUMENT



FEATURES

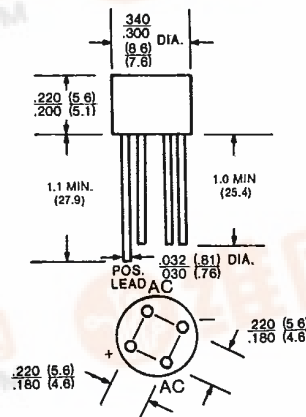
- This series is UL recognized under component index, file number E54214
- Plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High case dielectric strength
- Typical I_R less than .1 μ A
- High overload surge capability
- Ideal for printed circuit board
- High temperature soldering guaranteed: 265°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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°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°C	1.0							A(AV)
Peak Forward Surge Current, single sine-wave superimposed on rated load (JEDEC Method)	30.0							Apk
I ² t Rating for fusing (t ≤ 8.35ms)	5.0							A²s
Maximum Instantaneous Forward Voltage Drop per element at 1.0A	1.2							Vpk
Maximum Reverse Current at Rated T _A =25°C DC Blocking Voltage per element T _A =100°C	10.0 1.0							μA mA
Typical Junction Capacitance per element (Note 1)	24.0							pF
Maximum Thermal Resistance-θJA (Note 2)	60.0							°C/W
Operating Temperature Range T _A	-50 to +125							°C
Storage Temperature Range T _{STG}	-50 to +150							°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**

