

RW005M THRU RW10M SERIES

1.5 AMPERE FAST-RECOVERY MINIATURE SINGLE-PHASE SILICON BRIDGE



FEATURES

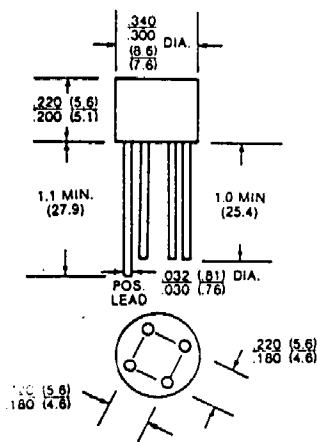
- This series is UL recognized under component index, file number E54214
- Plastic material used carries Underwriters Laboratory Flammability Classification 94V-0
- High case dielectric strength
- Typical I_k less than $.1 \mu A$
- High overload surge capability
- Fast switching for high efficiency
- 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 ounce, 1.3 grams

VOLTAGE RANGE
 50 to 1000 Volts

CURRENT
 1.5 Amperes



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	RW005M	RW01M	RW02M	RW04M	RW06M	RW08M	RW10M	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 Output Current .375", 9.5mm lead lengths at $T_A = 25^\circ C$	1.5							A(AV)
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC Method)	50.0							A(pk)
I^2t Rating for fusing (t = 8.3ms)	5.0							A ² s
Maximum Instantaneous Forward Voltage Drop per element at 1.0A	1.3							V(pk)
Maximum Reverse Current at Rated DC Blocking Voltage	10.0 1.0							μA mA
Maximum Reverse Recovery Time (Note 1) $T_J = 25^\circ C$	200		350		350		500	ns
Typical Thermal Resistance $R_{\theta JA}$ (Note 2)	50.0							$^\circ C/W$
Operating Temperature T_A	-50 to +125							$^\circ C$
Storage Temperature Range T_{STG}	-50 to +150							$^\circ C$

NOTES:

1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$.
2. Unintended mounted on P.C. board with .375", 9.5mm lead lengths.

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.