New Jersey Semi-Conductor Products, Inc.

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2KBP005M THRU 2KBP10M SERIES

2.0 AMPERE MINIATURE SINGLE PHASE SILICON BRIDGE

FEATURES

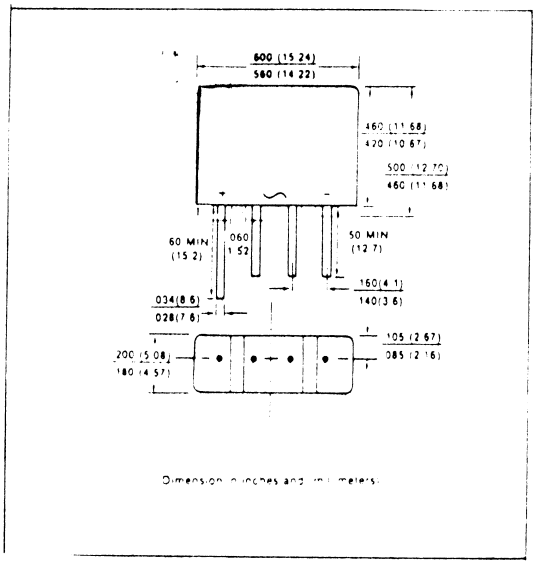
- Glass passivated chip junctions
- Plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Ideal for printed circuit board
- Typical I_R less than .1 μA
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed: 265° C/ 10 seconds at 5 lbs., (2.3kg) tension

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified
Resistive or inductive load

	2KBP005M	2KBP01M	2KBP02M	2KBP04M	2KBP06M	2KBP08M	2KBP10M	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 at T_A = 50°C	2.0							$A_{(AV)}$
Peak Forward Surge Current, single sine-wave superimposed on rated load (JEDEC Method)	60.0							Apk
I^2t Rating for fusing (t < 8.3ms)	15.0							A^2s
Maximum Instantaneous Forward Voltage Drop per Bridge Element at 2.0A	1.1							Vpk
Typical Junction Capacitance per element (Note 1)	25.0							pF
Maximum Reverse DC Current Rated T_A=25°C DC Blocking Voltage per element T_A=125°C	10.0 0.5							μA mA
Typical Thermal Resistance OJL (Note 2)	10.0							°C/W
Operating and Storage Temperature Range T_J, T_{STG}	-55 to +150							°C

NOTES
1. Measured at 1MHz and applied reverse voltage of 4.0 volts.
2. Thermal Resistance from Junction to lead on P.C. Board Mounting per element.
3. Thermal Resistance from Junction to Ambient on P.C. Board Mounting $R\theta JA$ = 60°C/W for Full Wave Bridge Operation.



Dimension in inches and millimeters

Quality Semi-Conductors