



# PB1000~PB1010

## SILICON BRIDGE RECTIFIERS

**VOLTAGE** 50 to 1000 Volts **CURRENT** 10 Amperes

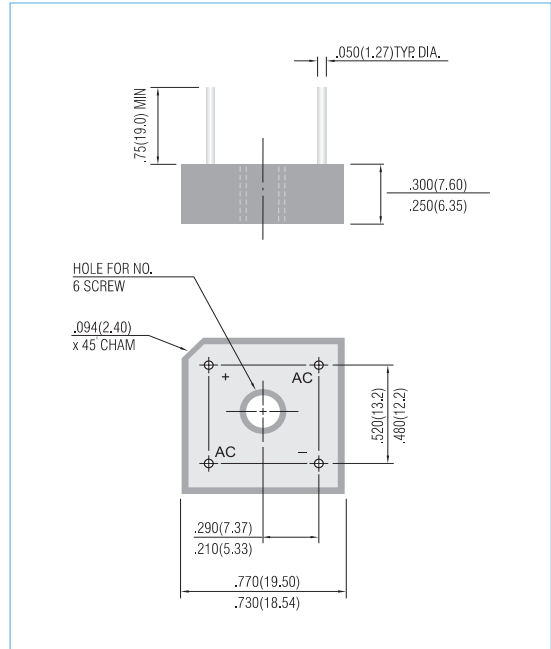
CP-8 / K-8 / PB-10 Unit: inch ( mm )

### FEATURES

- High temperature metallurgically bonded internal rectifiers
- Please package has Underwrites Laboratory Flammability Classification 94V-0
- Exceeds environmental standards of MIL-STD-19500
- High temperature soldering guaranteed : 265°C / 10 seconds / .375" (9.5mm) lead length at 5 lbs. (2.3kg) tension
- Pb free product are available: 99% Sn above can meet RoHS environment substance directive request

### MECHANICAL DATA

Case : void-free plastic package  
 Terminals : Leads solderable per MIL-STD-750, Method 2026  
 Mounting : Thru hole for #6 screw  
 Mounting position : Any  
 Weight : 5.5 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, Resistive or inductive load.  
 For capacitive load, derate current by 20%

RATINGS	SYMBOL	PB1000	PB1001	PB1002	PB1004	PB1006	PB1008	PB1010	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Rectified Output at T <sub>c</sub> =50°C (Note 1) see Fig2 T <sub>c</sub> =100°C (Note 1) T <sub>A</sub> =50°C (Note 2)	I <sub>AV</sub>	10.0 8.0 8.0							A
Peak One Cycle Surge Overload Current	I <sub>FSM</sub>	200							A
Maximum Forward Voltage Drop per Element at 5.0A DC & 25°C See Fig 3	V <sub>F</sub>	1.1							V
Maximum Reverse Leakage at Rated DC Blocking Voltage at T <sub>A</sub> =25°C per Element See Fig 4 at T <sub>A</sub> =100°C	I <sub>R</sub>	10.0 1.0							μA mA
Operating Temperature Range	T <sub>J</sub>	-55 To + 125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 To + 150							°C

- NOTES: 1. Unit mounted on metal chassis  
 2. Unit mounted on P.C. board.



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