



PB1000 SERIES

SILICON BRIDGE RECTIFIERS

FEATURES

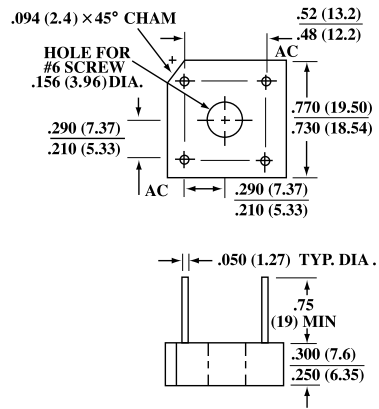
- High temperature metallurgically bonded internal rectifiers.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Exceeds environmental standards of MIL-STD-19500.
- High temperature soldering guaranteed : 265°C /10 seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension.

MECHANICAL DATA

Case : void-free plastic package.
 Terminals : Lead solderable per MIL-STD-202,Method 208.
 Mounting : Thru hole for #6 screw.
 Mounting position : Any
 Weight : 5.5 grams.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
10 Amperes

PB-10



Dimensions in inches and (millimeters)

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	PB1000	PB1001	PB1002	PB1004	PB1006	PB1008	PB1010	Units	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average $T_c = 50^\circ\text{C}$ (Note 1)								10.0	A
Rectified Output at $T_c = 100^\circ\text{C}$ (Note 1)								8.0	A
See Fig 2 $T_A = 50^\circ\text{C}$ (Note 2)								8.0	A
Peak One Cycle Surge Overload Current								200	A
Maximum Forward Voltage Drop per Element at 5.0A DC & 25°C. see Fig 3								1.1	V
Maximum Reverse Leakage at Rated DC Blocking Voltage at $T_A = 25^\circ\text{C}$ per Element See Fig 4 at $T_A = 100^\circ\text{C}$								10.0	μA
								1.0	mA
Operating Temperature Range								-55 to + 125	$^\circ\text{C}$
Storage Temperature Range								-55 to + 150	$^\circ\text{C}$

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



RATING AND CHARACTERISTIC CURVES PB1000 SERIES

FIG. 1-NON-RECURRENT SURGE RATING

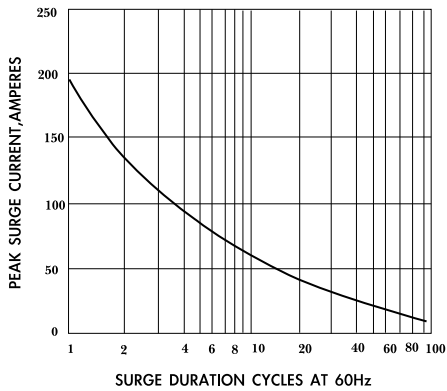


FIG. 2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

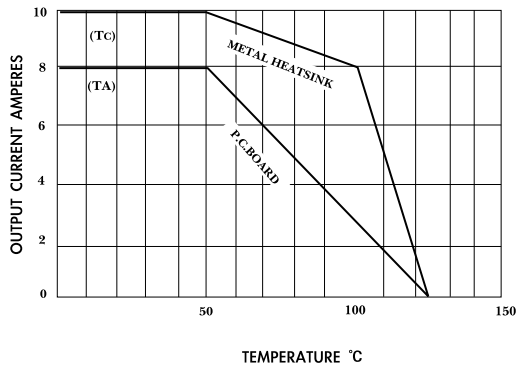


FIG. 3-TYPICAL FORWARD CHARACTERISTICS (25°C)

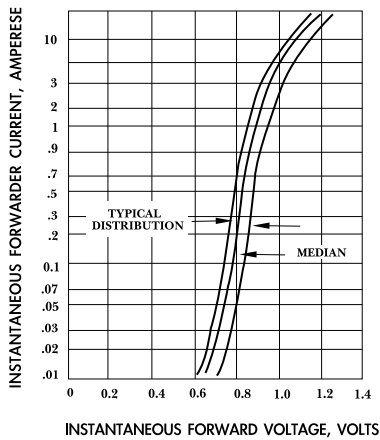


FIG. 4-TYPICAL REVERSE CHARACTERISTIC (25°C)

