

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

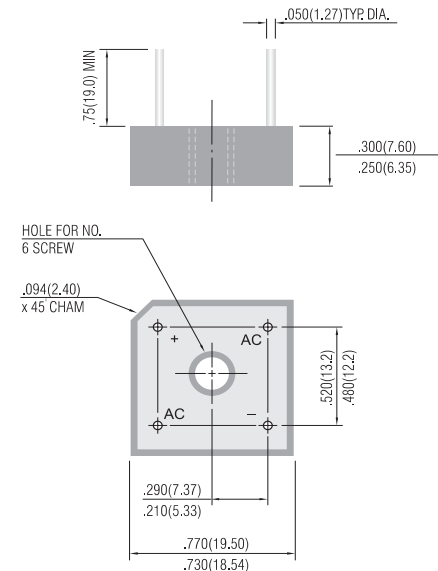
Case : void-free plastic package

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_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Rectified Output at $T_c=50^\circ\text{C}$ (Note 1) see Fig2 $T_c=100^\circ\text{C}$ (Note 1) $T_A=50^\circ\text{C}$ (Note 2)	I_{AV}	10.0 8.0 8.0							A
Peak One Cycle Surge Overload Current	I_{FSM}	200							A
Maximum Forward Voltage Drop per Element at 5.0A DC & 25°C See Fig 3	V_F	1.1							V
Maximum Reverse Leakage at Rated DC Blocking Voltage at $T_A=25^\circ\text{C}$ per Element See Fig 4 at $T_A=100^\circ\text{C}$	I_R	10.0 1.0							μA mA
Operating Temperature Range	T_J	-55 To + 125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 To + 150							$^\circ\text{C}$

NOTES: 1. Unit mounted on metal chassis

2. Unit mounted on P.C. board.

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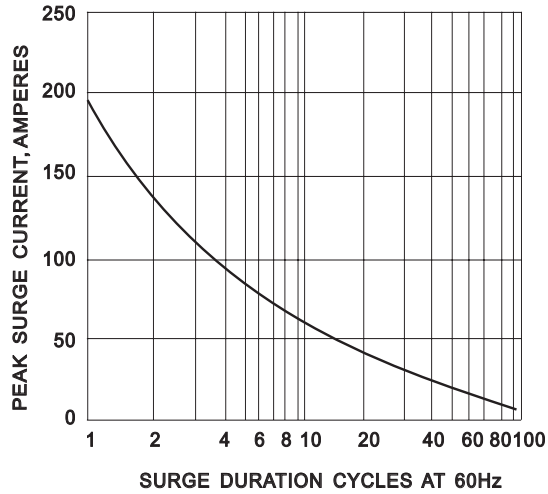


FIG.1-NON-RECURRENT SURGE RATING

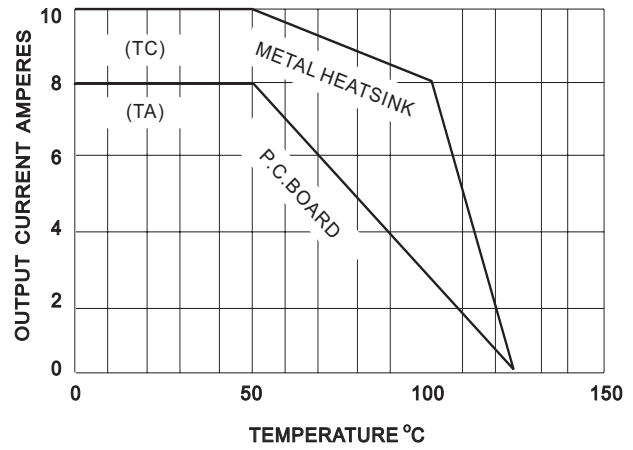


FIG.2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

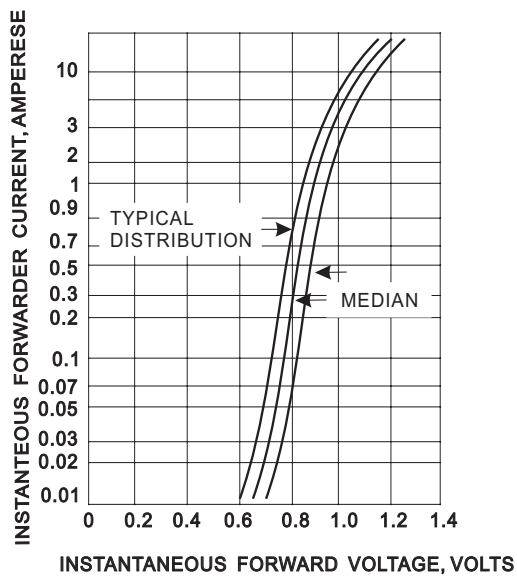


FIG.3-TYPICAL FORWARD CHARACTERISTICS(25°C)

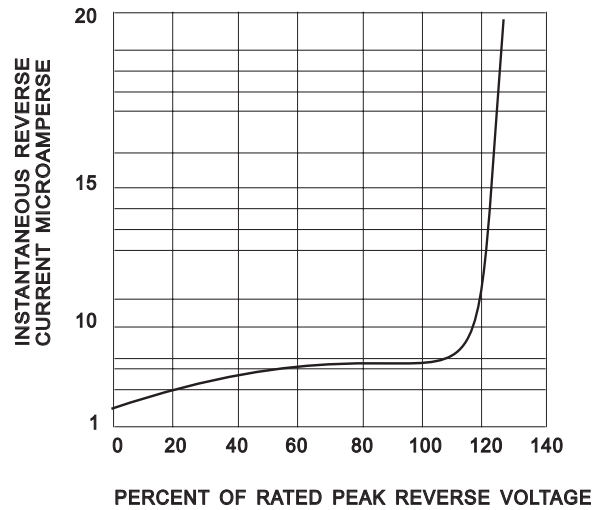


FIG.4-TYPICAL REVERSE CHARACTERISTIC (25°C)