



KBPC600~KBPC6010

SILICON BRIDGE RECTIFIERS

VOLTAGE 50 to 1000 Volts **CURRENT** 6 Amperes

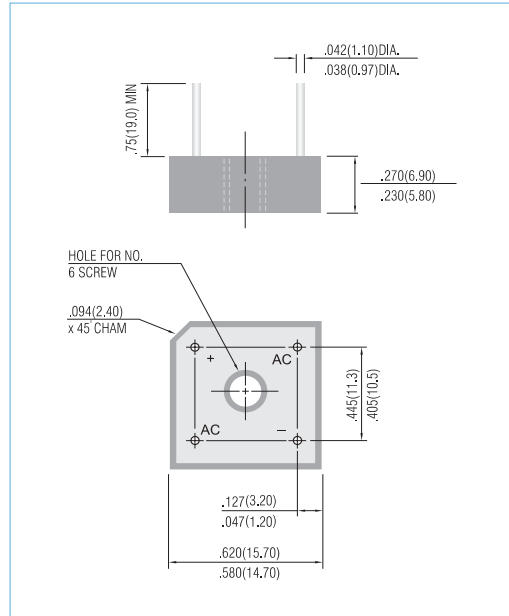
CP-6 / K-6 Unit: inch (mm)

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 : 3.2 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	KBPC600	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC6010	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 see Fig2	I _{AV}					6.0 4.0 4.0			A
Peak One Cycle Surge Overload Current	I _{FSM}					125			A
Maximum Forward Voltage Drop per Element at 3.0A DC & 25°C See Fig 3	V _F					1.0			V
Maximum Reverse Leakage at Rated DC Blocking Voltage at T _A =25°C per Element See Fig 4 at T _A =100°C	I _R					10.0 1.0			μA mA
Operating Temperature Range	T _J					-55 To + 125			°C
Storage Temperature Range	T _{STG}					-55 To + 150			°C

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



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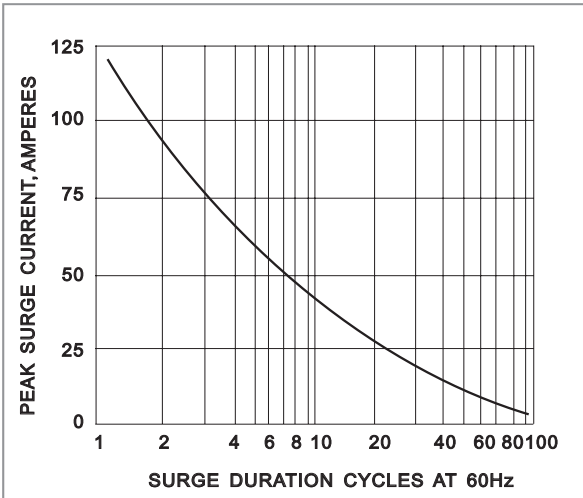


FIG.1-NON-RECURRENT SURGE RATING

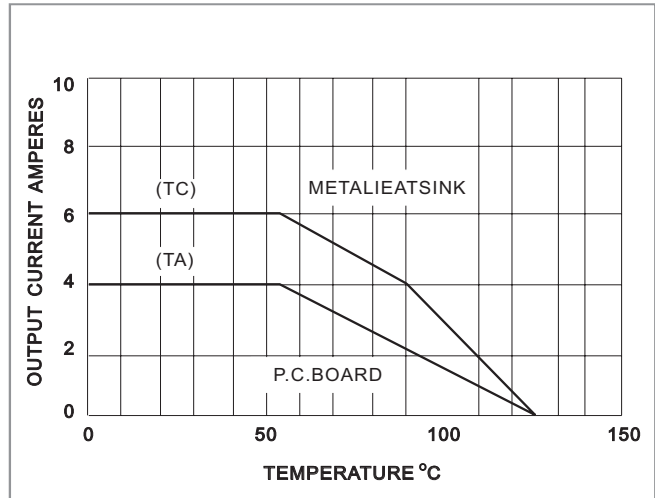


FIG.2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

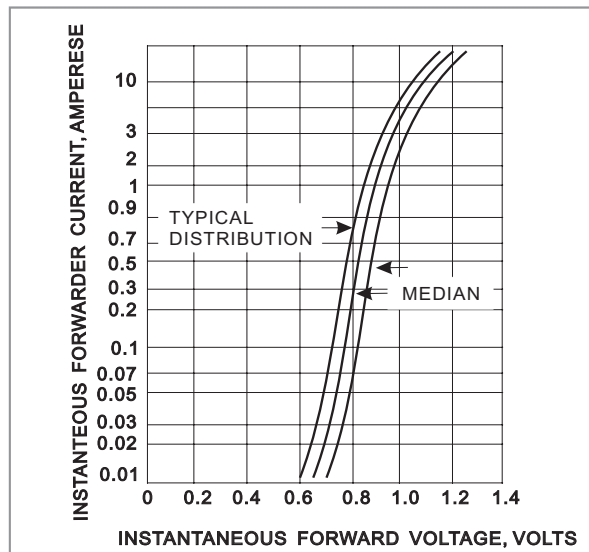


FIG.3-TYPICAL FORWARD CHARACTERISTICS(25°C)

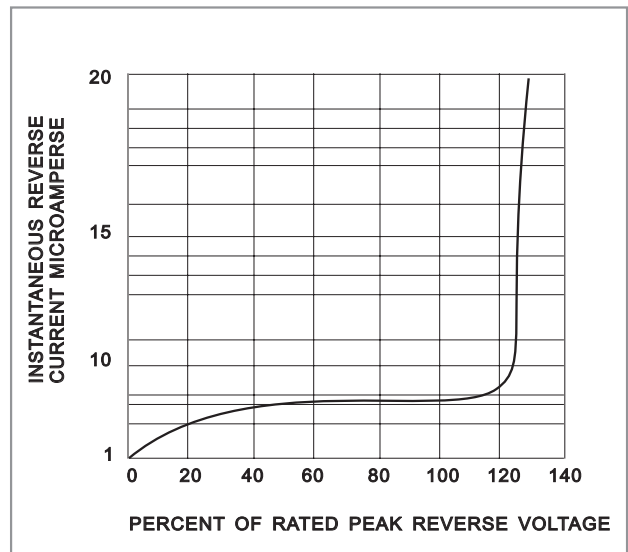


FIG.4-TYPICAL REVERSE CHARACTERISTIC (25°C)



2. MARKING



Marking code