MAX-DIODE ELECTRONIC CO.,LTD

KBPC600 SERIES

SILICON BRIDGE RECTIFIERS

FEATURES

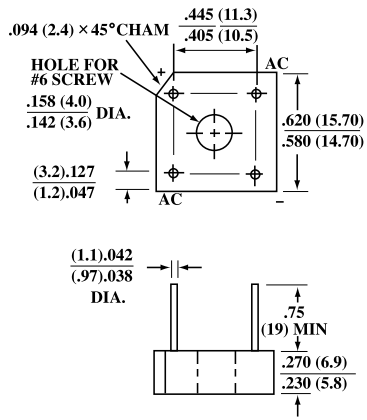
- High temperature metallurgically bonded internal rectifiers.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Exceeds environmental standards of MIL-STD-19500.
- High temperature soldering guaranteed : 265℃ /10 seconds/.375"(9.5mm) lead length at 5 lbs., (2.3kg) tension.

MECHANICAL DATA

Case : void-free plastic package
Terminals : Leads solderable per MIL-STD-202,Method 208
Mounting : Thru hole for #6 screw
Mounting position : Any
Weight : 3.2 grams.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
6 Amperes

KBPC-6



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	KBPC600	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC6010	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 Rectified Output Tc = 50℃ (Note1) see Fig 2 Tc = 100℃ (Note1) TA = 50℃ (Note2)	6.0 4.0 4.0							A A A
Peak One Cycle Surge Overload Current	125							A
Maximum Forward Voltage Drop per Element at 3.0 A DC & 25℃ See Fig 3	1.0							V
Maximum Reverse Leakage at Rated DC Blocking Voltage at TA = 25℃ per Element See Fig 4 at TA =100℃	10.0 1.0							μA mA
Operating Temperature Range	-55 To + 125							℃
Storage Temperature Range	-55 To + 150							℃

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

RATING AND CHARACTERISTIC CURVES KBPC600 SERIES

FIG. 1-NON-RECURRENT SURGE RATING

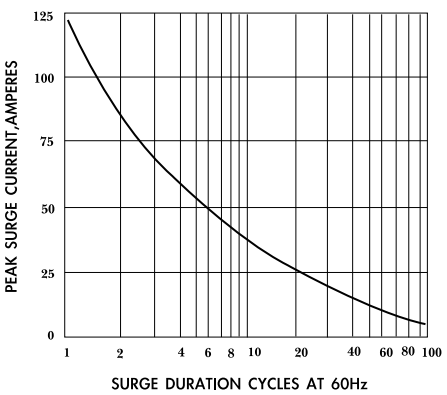


FIG. 2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

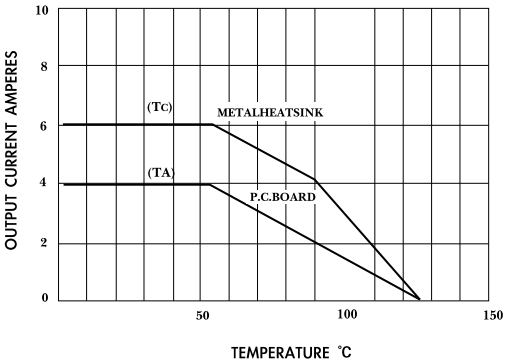


FIG. 3-TYPICAL FORWARD CHARACTERISITC(25°C)

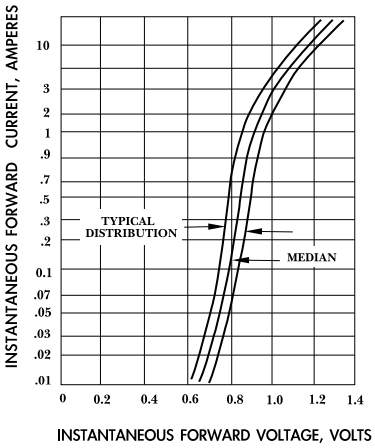


FIG. 4-TYPICAL REVERSE CHARACTERISTIC (25°C)