



KBPC800 SERIES

SILICON BRIDGE RECTIFIERS

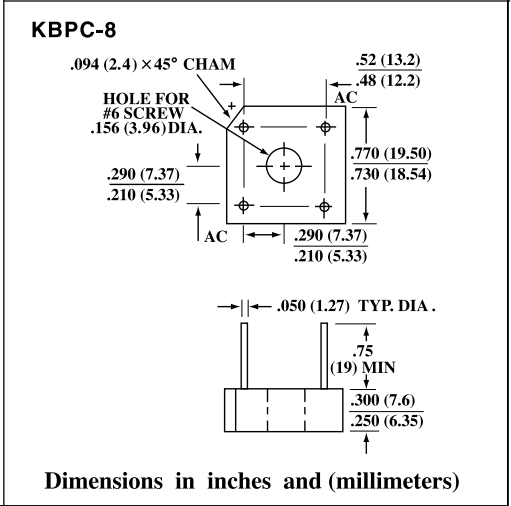
FEATURES

- 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 : Leads 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
8 Amperes



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 | KBPC800 | KBPC801 | KBPC802 | KBPC804 | KBPC806 | KBPC808 | KBPC8010 | 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 Tc = 50°C (Note1) Rectified Output at Tc = 100°C (Note1) see Fig 2 TA = 50°C (Note2) | | | | 8.0 | | | | A |
| | | | | 6.0 | | | | A |
| | | | | 6.0 | | | | A |
| Peak One Cycle Surge Overload Current | | | | 200 | | | | A |
| Maximum Forward Voltage Drop per Element at 4.0A DC & 25°C See Fig 3 | | | | 1.0 | | | | V |
| Maximum Reverse Leakage at Rated DC Blocking Voltage at TA = 25°C per Element See Fig 4 at TA = 100°C | | | | 10.0 | | | | µA |
| | | | | 1.0 | | | | mA |
| Operating Temperature Range | | | | -55 to + 125 | | | | °C |
| Storage Temperature Range | | | | -55 to + 150 | | | | °C |

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



RATING AND CHARACTERISTIC CURVES KBPC800 SERIES

FIG. 1-NON-RECURRENT SURGE RATING

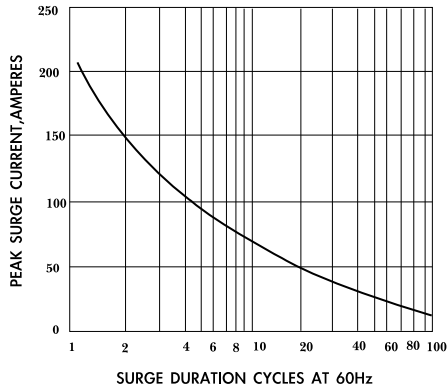


FIG. 2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

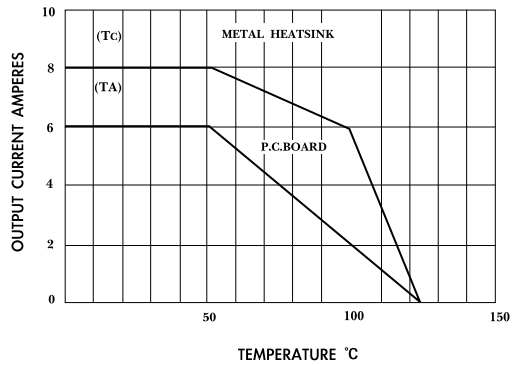


FIG. 3-TYPICAL FORWARD CHARACTERISTICS (25°C)

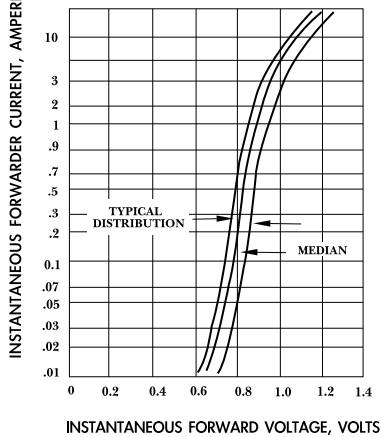


FIG. 4-TYPICAL REVERSE CHARACTERISTIC (25°C)

