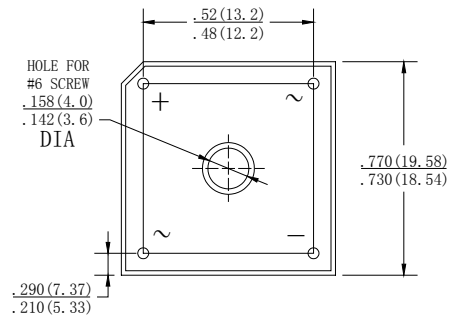




KBPC8

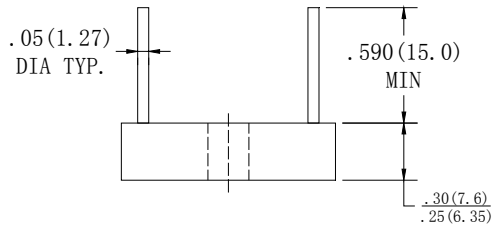
Features

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:
 250°C / 10 seconds / 0.375" (9.5mm)
 lead length at 5 lbs., (2.3 kg) tension



Mechanical Data

- Case: Molded plastic
- Lead: solder plated
- Polarity: As marked



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| Type Number | | BR 10005 | BR 1001 | BR 1002 | BR 1004 | BR 1006 | BR 1008 | BR 1010 | UNITS |
|--|-------------------|-------------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS 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 Forward Rectified Current @T _C = 50°C | I(AV) | 10 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I _{FSM} | 200 | | | | | | | A |
| Maximum Instantaneous Forward Voltage @5.0A | V _F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ TA=25°C rated DC blocking voltage per leg TA = 100°C | I _R | 5.0 500 | | | | | | | μ A |
| Typical Thermal Resistance (Note) | R θ _{JC} | 2.5 | | | | | | | °C/W |
| Operating Temperature Range | T _J | -55 to +125 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

NOTE: Thermal Resistance from junction to case with units mounted on a 3.2" x 3.2" x 0.12" (8.2cm.x 8.2cm.x 0.3cm.) Al.-Finned Plate.



FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMMENT

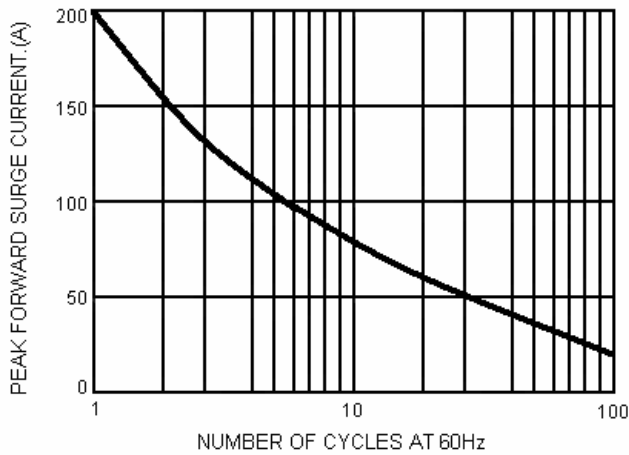


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

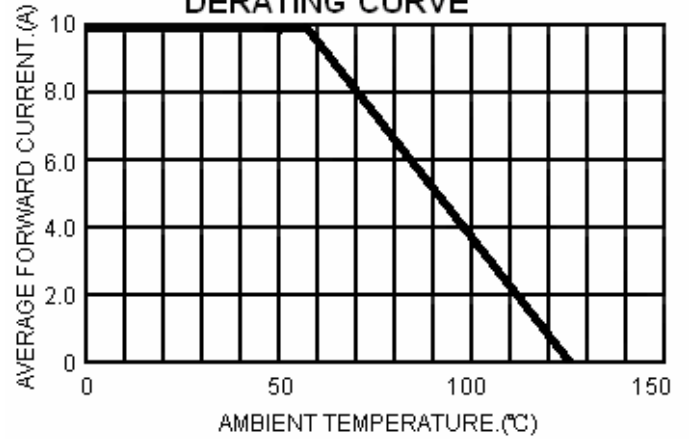


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

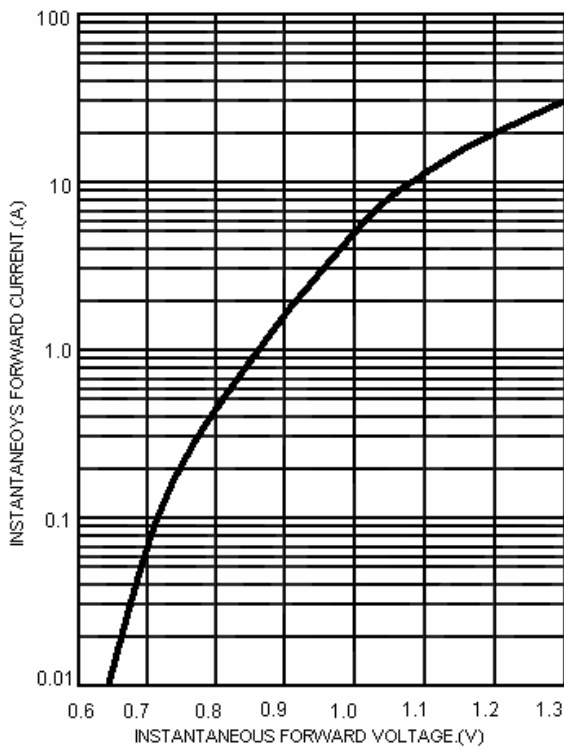


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

