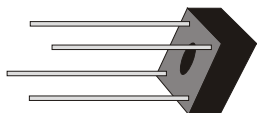




# KBPC10005 THRU KBPC1010

## SINGLE PHASE 10.0 AMP BRIDGE RECTIFIERS



### FEATURES

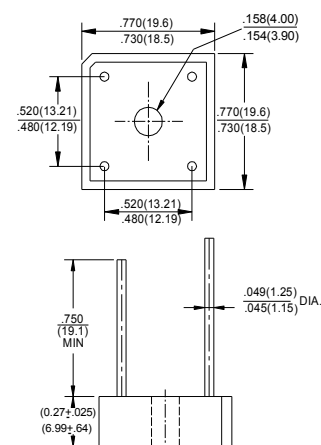
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Mounting: Hole thru for #6 screw
- \* Mounting position: Any
- \* Weight: 3.36 grams

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

10.0 Ampere



Polarity shown on side of case, Positive lead by beveled corner.  
Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER                                                                                        | KBPC10005  | KBPC1001 | KBPC1002 | KBPC1004 | KBPC1006 | KBPC1008 | KBPC1010 | UNITS |
|----------------------------------------------------------------------------------------------------|------------|----------|----------|----------|----------|----------|----------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                             | 50         | 100      | 200      | 400      | 600      | 800      | 1000     | V     |
| Maximum RMS Voltage                                                                                | 35         | 70       | 140      | 280      | 420      | 560      | 700      | V     |
| Maximum DC Blocking Voltage                                                                        | 50         | 100      | 200      | 400      | 600      | 800      | 1000     | V     |
| Maximum Average Forward Rectified Current                                                          | 10.0       |          |          |          |          |          |          | A     |
| .375" (9.5mm) Lead Length at Tc=50°C                                                               | 10.0       |          |          |          |          |          |          | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 200        |          |          |          |          |          |          | A     |
| Maximum Forward Voltage Drop per Bridge Element at 5.0A D.C.                                       | 1.1        |          |          |          |          |          |          | V     |
| Maximum DC Reverse Current Ta=25°C                                                                 | 10         |          |          |          |          |          |          | uA    |
| at Rated DC Blocking Voltage Ta=100°C                                                              | 100        |          |          |          |          |          |          | uA    |
| Operating Temperature Range, Tj                                                                    | -65 — +150 |          |          |          |          |          |          | °C    |
| Storage Temperature Range, Tstg                                                                    | -65 — +150 |          |          |          |          |          |          | °C    |

# RATING AND CHARACTERISTIC CURVES (KBPC10005 THRU KBPC1010)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

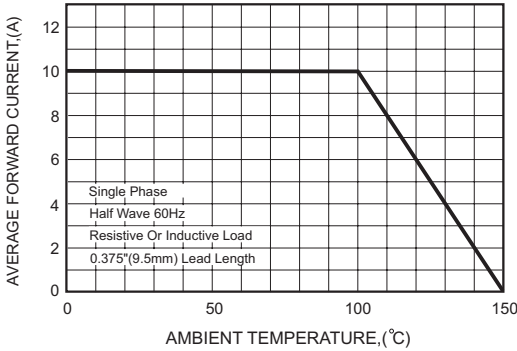


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

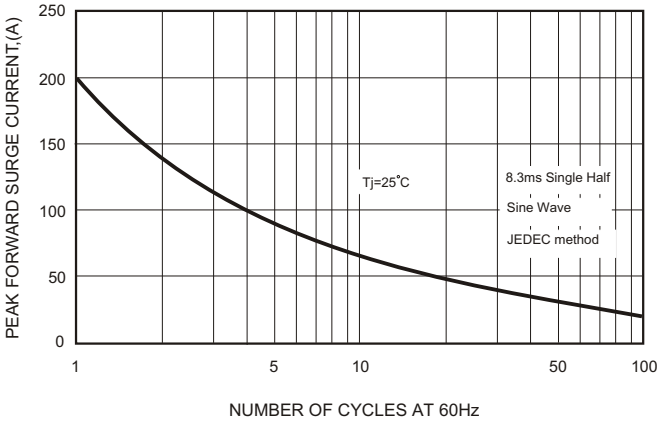


FIG.3-TYPICAL FORWARD CHARACTERISTICS

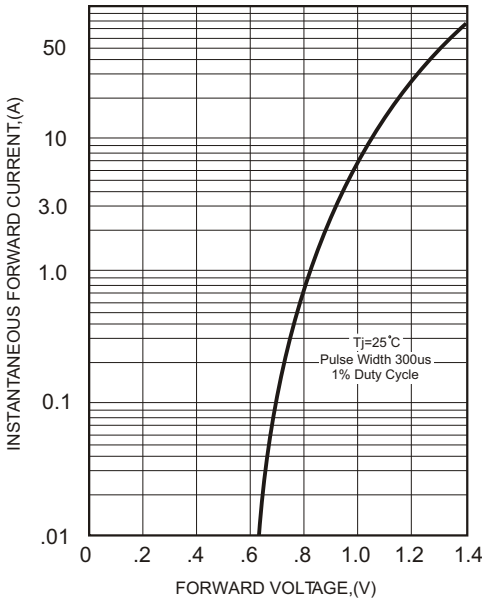


FIG.4-TYPICAL REVERSE CHARACTERISTICS

