

## FEATURES

- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any

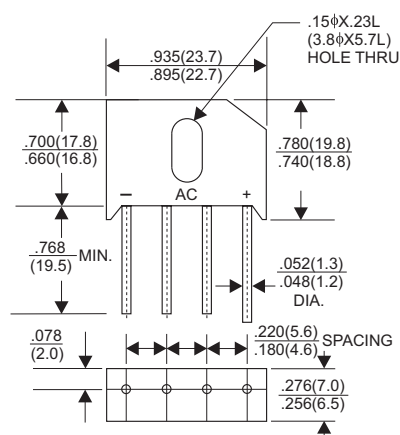
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

10 Amperes

### KBU



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                                                                                           | KBU10005   | KBU1001 | KBU1002 | KBU1004 | KBU1006 | KBU1008 | KBU1010 | 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<br>.375"(9.5mm) Lead Length at Ta=55°C                      | 10         |         |         |         |         |         |         | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 200        |         |         |         |         |         |         | A     |
| Maximum Forward Voltage Drop per Bridge Element at 5.0A D.C.                                          | 1.05       |         |         |         |         |         |         | V     |
| Maximum DC Reverse Current<br>Ta=25°C                                                                 | 10         |         |         |         |         |         |         | μA    |
| at Rated DC Blocking Voltage<br>Ta=100°C                                                              | 500        |         |         |         |         |         |         | μA    |
| Operating Temperature Range, T <sub>J</sub>                                                           | -65 — +150 |         |         |         |         |         |         | °C    |
| Storage Temperature Range, T <sub>STG</sub>                                                           | -65 — +150 |         |         |         |         |         |         | °C    |

## RATING AND CHARACTERISTIC CURVES (KBU10005 THRU KBU1010)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

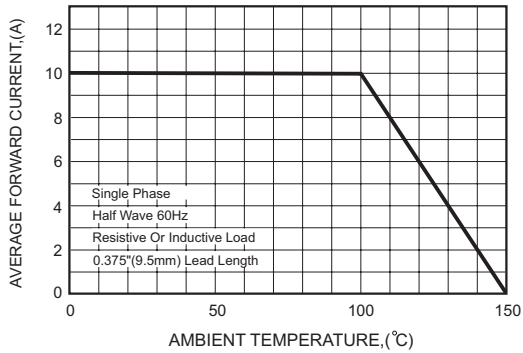


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

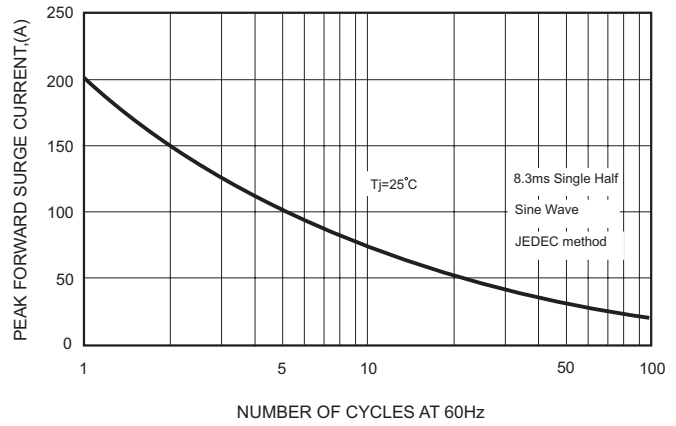


FIG.3-TYPICAL FORWARD CHARACTERISTICS

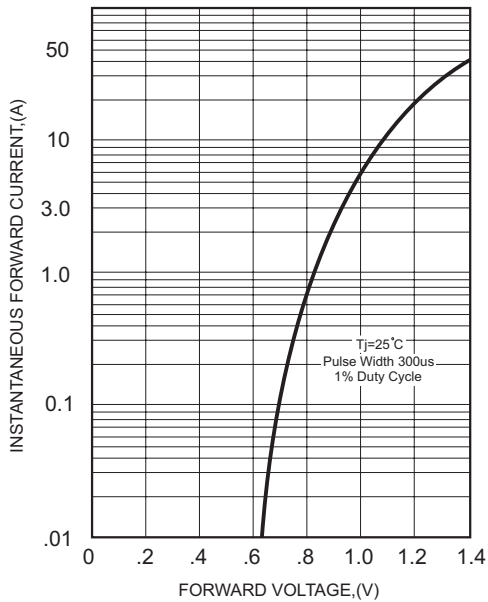


FIG.4-TYPICAL REVERSE CHARACTERISTICS

