

## 4/6/8A Single-Phase GLass Passivated Bridge Rectifiers



Recifier Reverse Voltage 50V to 1000V

### KBU

### Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge overload ratings to 125 thru 175 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10

### Mechanical Data

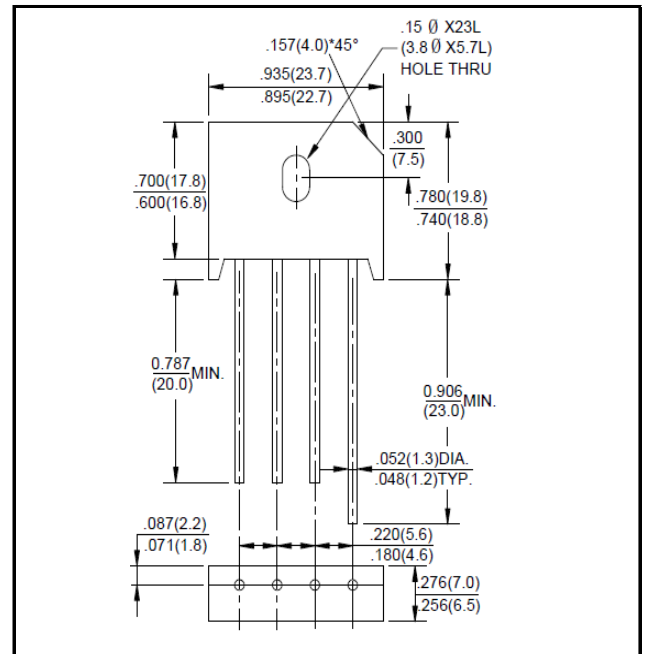
Case:Molded plastic

Terminals:Platde leads solderable per MIL-STD-750,  
Method 2026

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Weight:0.25ounce,7.0 grams(approx)



### Maximum Ratings & Thermal Characteristics

Dimensions in inches and (millimeters)

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

| Parameter                                                                             | Symbol         | KBU4A     | KBU4B | KBU4D | KBU4G | KBU4J | KBU4K | KBU4M | unit |
|---------------------------------------------------------------------------------------|----------------|-----------|-------|-------|-------|-------|-------|-------|------|
|                                                                                       |                | KBU6A     | KBU6B | KBU6D | KBU6G | KBU6J | KBU6K | KBU6M |      |
|                                                                                       |                | KBU8A     | KBU8B | KBU8D | KBU8G | KBU8J | KBU8K | KBU8M |      |
| Maximum repetitive peak reverse voltage                                               | VRRM           | 50        | 100   | 200   | 400   | 600   | 800   | 1000  | V    |
| Maximum RMS bridge input voltage                                                      | VRMS           | 35        | 70    | 140   | 280   | 420   | 560   | 700   | V    |
| Maximum DC blocking voltage                                                           | VDC            | 50        | 100   | 200   | 400   | 600   | 800   | 1000  | V    |
| Maximum average forward rectified output current at TA=40℃                            | IF(AV)         | KBU4      | 4.0   | KBU6  | 6.0   |       | KBU8  | 8.0   | A    |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | IFSM           |           | 125   |       | 150   |       |       | 175   | A    |
| Maximum instantaneous forward voltage drop per element at 2.0A /3.0A/4.0A             | VF             |           | 1.05  |       | 1.05  |       |       | 1.05  | V    |
| Maximum DC reverse current at ratde TA=25℃                                            | IR             |           | 5     |       | 5     |       |       | 5     | UA   |
| DC blocking voltage per element TA=100℃                                               |                |           | 100   |       | 100   |       |       | 100   |      |
| Typical junction capacitance per element(NOTE)                                        | C <sub>J</sub> |           | 110   |       | 260   |       |       | 250   | pF   |
| Operating and storage temperature range                                               | TJ,TSTG        | -55to+150 |       |       |       |       |       |       | ℃    |

Note:1 Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

## Rating and Characteristic Curves(TA=25°C Unless otherwise noted)

FIG.1-DERATING CURVE FOR

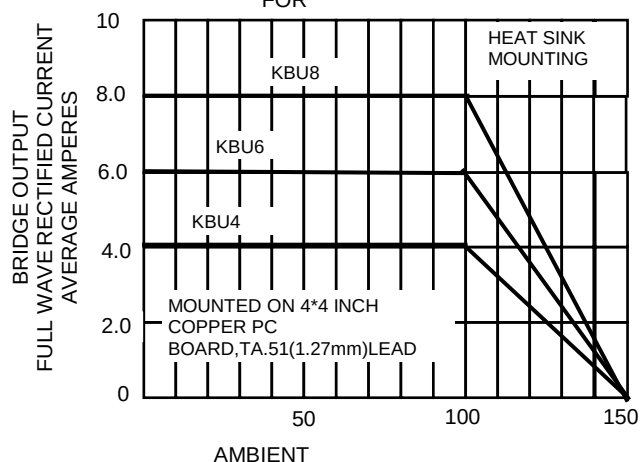


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

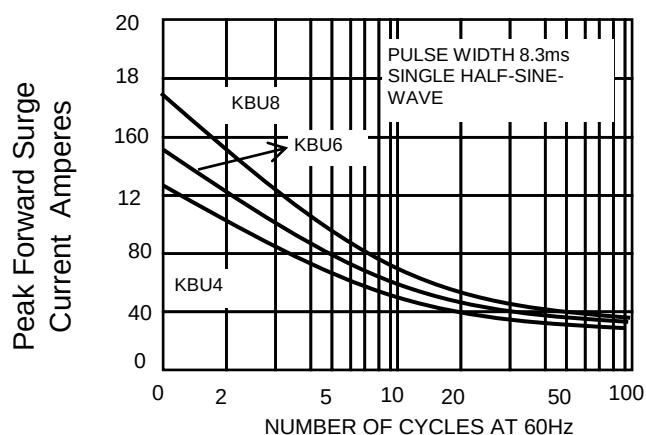


FIG.3-TYPICAL REVERSE CHARACTERISTICS

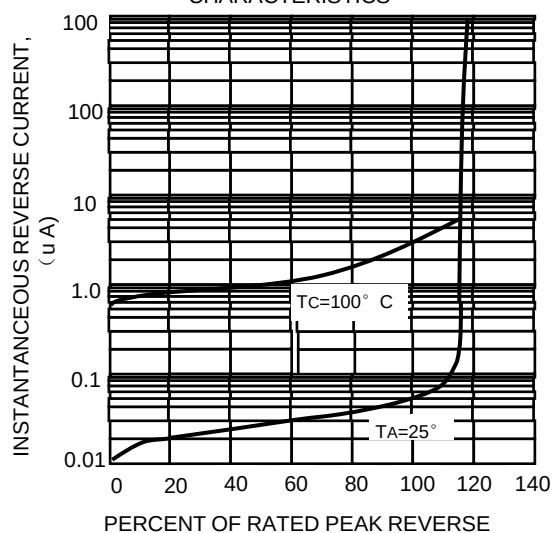


FIG.4-TYPICAL FORWARD CHARACTERISTICS

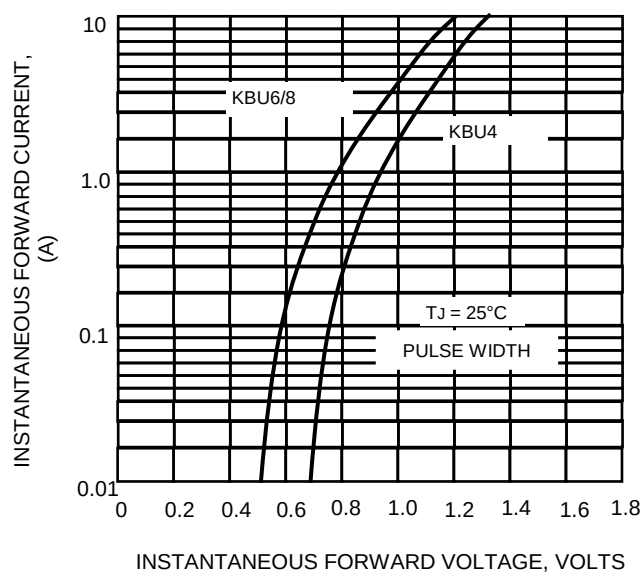


FIG.5-TYPICAL JUNCTION

