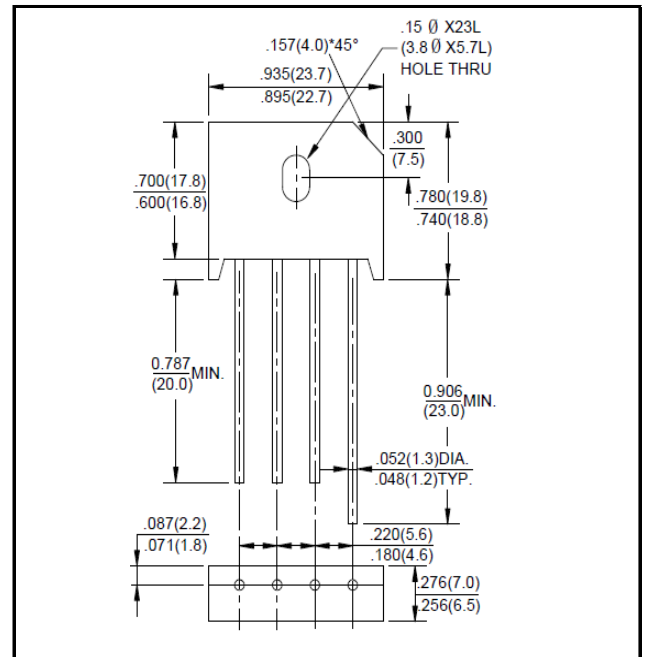


10/15/25A Single-Phase GLass Passivated Bridge Rectifiers



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 | KBU10A | KBU10B | KBU10D | KBU10G | KBU10J | KBU10K | KBU10M | unit |
|--|---------|--------|--------|--------|-----------|--------|--------|--------|------|
| | | KBU15A | KBU15B | KBU15D | KBU15G | KBU15J | KBU15K | KBU15M | |
| | | KBU25A | KBU25B | KBU25D | KBU25G | KBU25J | KBU25K | KBU25M | |
| 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 (with heatsink Note 1) Rectified current @Tc=100°C (without heatsink) | IF(AV) | KBU10 | 10.0 | KBU15 | 15.0 | KBU25 | 25.0 | A | |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | IFSM | | 3.0 | | 3.2 | | 3.6 | A | |
| Maximum instantaneous forward voltage drop per element at 5.0A /7.5A/12.5A | VF | | 200 | | 250 | | 300 | A | |
| Maximum DC reverse current at ratde TA=25°C DC blocking voltage per element TA=100°C | IR | 10 | 10 | 10 | 10 | 10 | 10 | UA | |
| Operating and storage temperature range | TJ,TSTG | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | °C |
| | | | | | -55to+150 | | | | |

Note: 1 Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

Rating and Characteristic Curves($T_A=25^\circ\text{C}$ Unless otherwise noted)

