



KBU10005 THRU KBU1010

Single Phase 10 AMPS. Glass Passivated Bridge Rectifiers

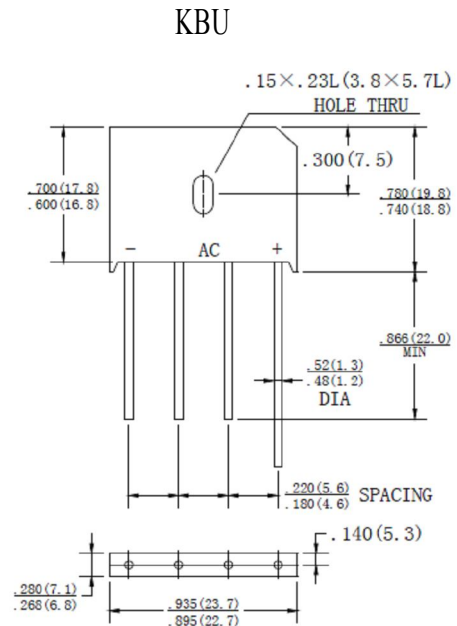
Voltage Range 50 to 1000 Volts Current 10 Amperes

Features

- UL Recognized File # E-230084
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:
260°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 | | KBU 10005 | KBU 1001 | KBU 1002 | KBU 1004 | KBU 1006 | KBU 1008 | KBU 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 _A = 45°C | I _(AV) | 10.0 | | | | | | | 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 @ 10.0A | V _F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ TA=25°C rated DC blocking voltage per leg TA = 125°C | I _R | 5.0 500 | | | | | | | μ A |
| Typical Thermal Resistance (Note) | R _{θ JC} | 2.2 | | | | | | | °C/W |
| Operating Temperature Range | T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

NOTE : Thermal Resistance from Junction to Case with Device Mounted on 100×100×1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

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

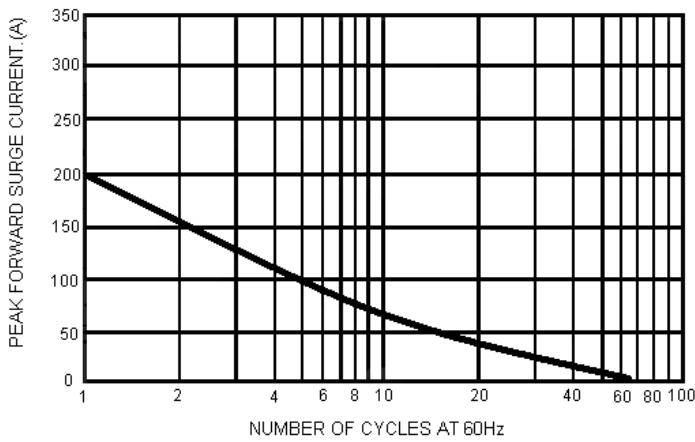


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

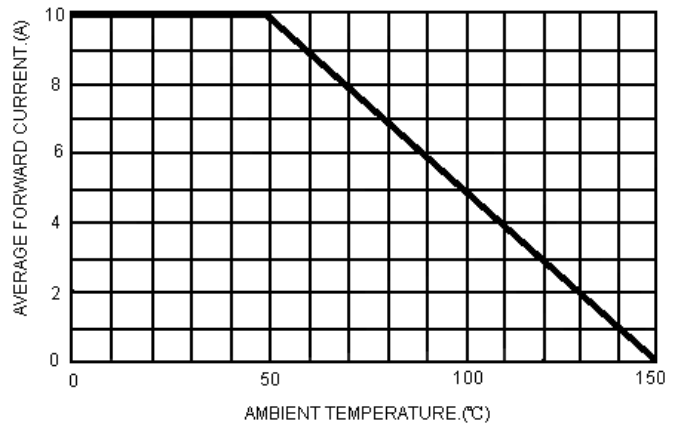


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

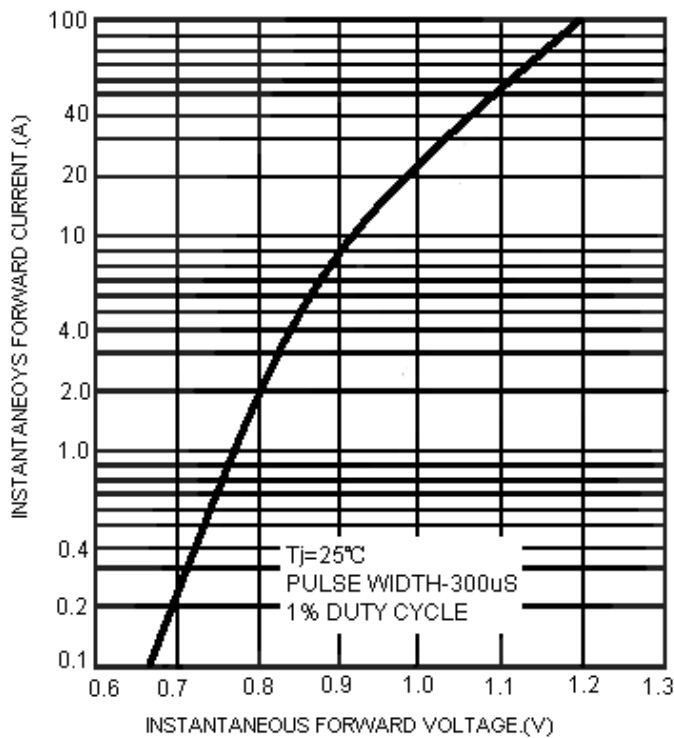


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

