

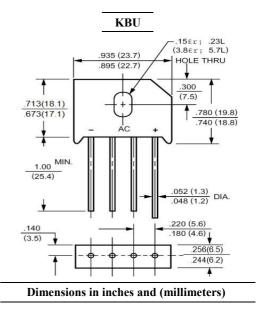
FEATURES

- · Reliable low cost construction utilizing molded plastic technique
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

MECHANICAL DATA

Case: Molded plastic, KBU Epoxy: UL 94V-0 rate flame retardant

Terminals: Pure tin plated, lead free, Leads solderable per MIL-STD-202, method 208 guaranteed Mounting position: As Marking Weight: 8.0gram



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

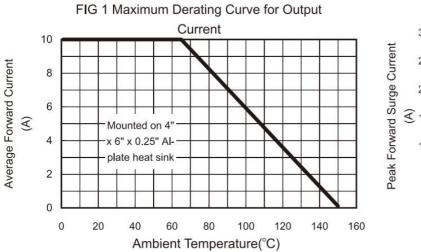
| | Symbols | KBU10005 | KBU1001 | KBU1002 | KBU1004 | KBU1006 | KBU1008 | KBU1010 | Units |
|---|---------------------------|------------|---------|---------|------------|---------|---------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at T _A=65 $^\circ\!\!\!\!^\circ\!\!\!^\circ\!\!\!^\circ$ | I _(AV) | | | | 10.0 | - | | | Атр |
| Peak Forward Surge Current, | | | | | | | | | |
| 8.3ms single half-sine-wave | I _{FSM} | 300 | | | | | | | Amp |
| superimposed on rated load (JEDEC method) | | | | | | | | | |
| Maximum Instantaneous Forward Voltage @ 5.0A | $\mathbf{V}_{\mathbf{F}}$ | 1.0 1.1 | | | | | | | Volts |
| @ 10.0A | ▼ F | | | | | | | | |
| Maximum Reverse Currentat $T_A=25^{\circ}C$ | т | 10.0 | | | | | | | uAmp |
| at Rated DC Blocking Voltage TA=125°C | IR | 500 | | | | | | | |
| Typical Junction Capacitance per leg (Note 1) | C _J | 400 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 25 | | | | | | | °C/W |
| | $R_{\theta JC}$ | 2.2 | | | | | | | |
| Operating Temperature Range | TJ | | | | -55 to +15 | 0 | | | °C |
| Storage Temperature Range | Tstg | | | | -55 to +15 | 0 | | | °C |

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Unit case mounted on 4" x 6" x 0.25" Al plate heat sink.





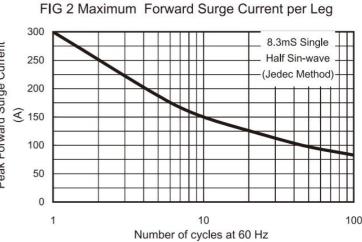
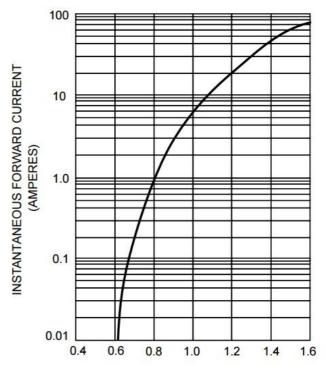


FIG 4 Typical Forward Characteristics per Leg.



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG 3 Typical Reverse Leakage Characteristics per Leg

