



**DC COMPONENTS CO., LTD.**  
RECTIFIER SPECIALISTS

**KBU10A  
THRU  
KBU10M**

**TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER**

**VOLTAGE RANGE - 50 to 1000 Volts**

**CURRENT - 10 Amperes**

**FEATURES**

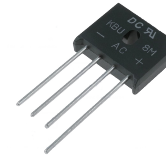
- \* High forward surge capability
- \* High capability
- \* High current capability
- \* Low forward voltage drop
- \* Glass passivated junction

**MECHANICAL DATA**

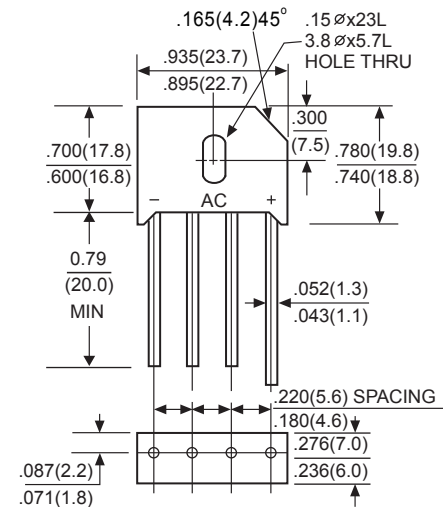
- \* Case: Molded plastic
- \* Epoxy: UL 94-V0 rated flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Symbols molded or marked on body
- \* Mounting position: Any
- \* Weight: 6.50 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



**KBU**

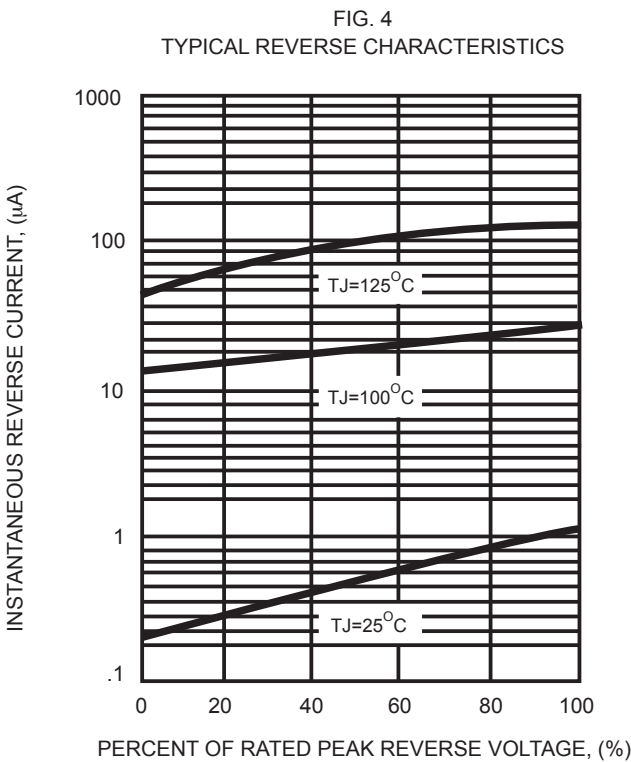
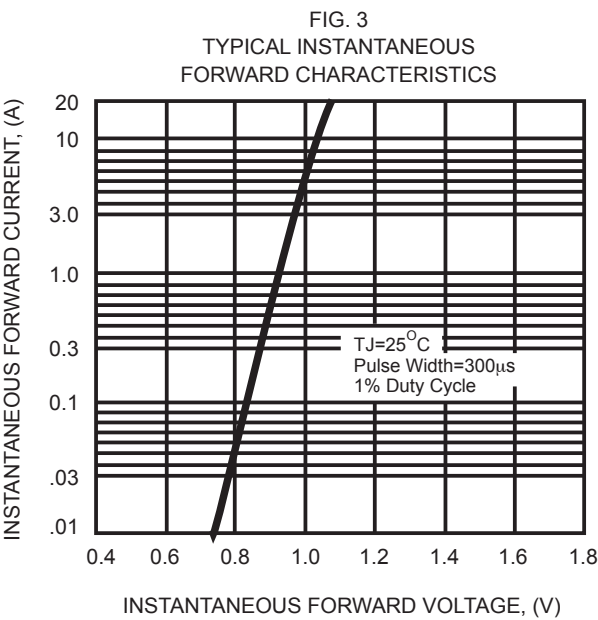
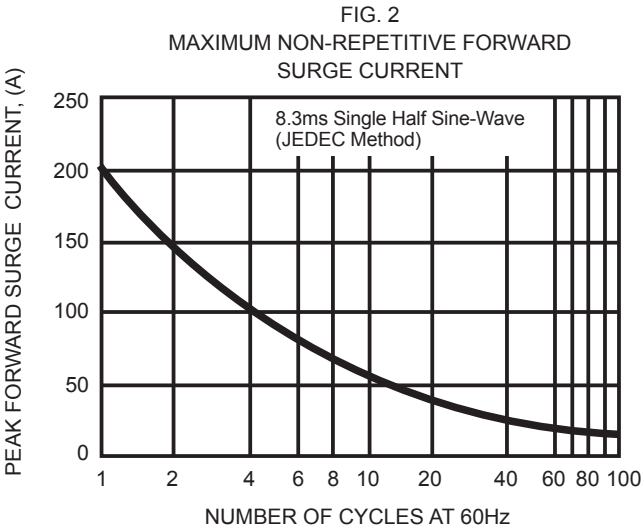
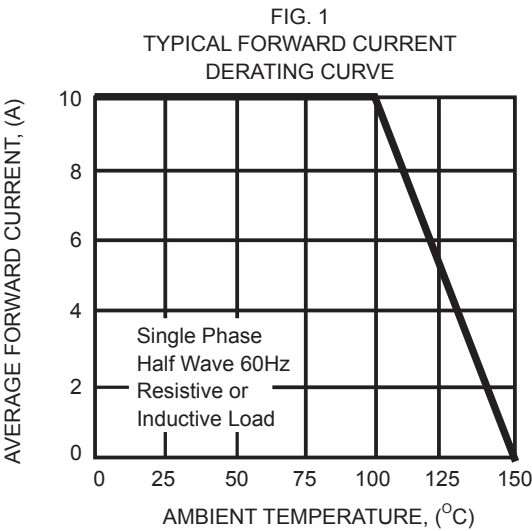


Dimensions in inches and (millimeters)

|   | SYMBOL                           | KBU10A         | KBU10B | KBU10D | KBU10G | KBU10J | KBU10K | KBU10M | UNITS |
|---|----------------------------------|----------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage  | V <sub>RRM</sub>                 | 50             | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum RMS Voltage   | V <sub>RMS</sub>                 | 35             | 70     | 140    | 280    | 420    | 560    | 700    | Volts |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>                  | 50             | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum Average Forward Rectified Current at T <sub>A</sub> = 100°C                               | I <sub>O</sub>                   | 10             |        |        |        |        |        |        | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | I <sub>FSM</sub>                 | 200            |        |        |        |        |        |        | Amps  |
| Maximum Instantaneous Forward Voltage at 5.0A DC  | V <sub>F</sub>                   | 1.1            |        |        |        |        |        |        | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage   | @T <sub>J</sub> = 25°C           | I <sub>R</sub> | 10     |        |        |        |        |        | μAmps |
|   | @T <sub>J</sub> = 125°C          |                | 500    |        |        |        |        |        |       |
| Operating and Storage Temperature Range   | T <sub>J</sub> ,T <sub>STG</sub> | -55 to +150    |        |        |        |        |        |        | °C    |

Note 1 :Measured at 1 MHz and applied reverse voltage of 4.0 volts.

# RATING AND CHARACTERISTIC CURVES (KBU10A THRU KBU10M)



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