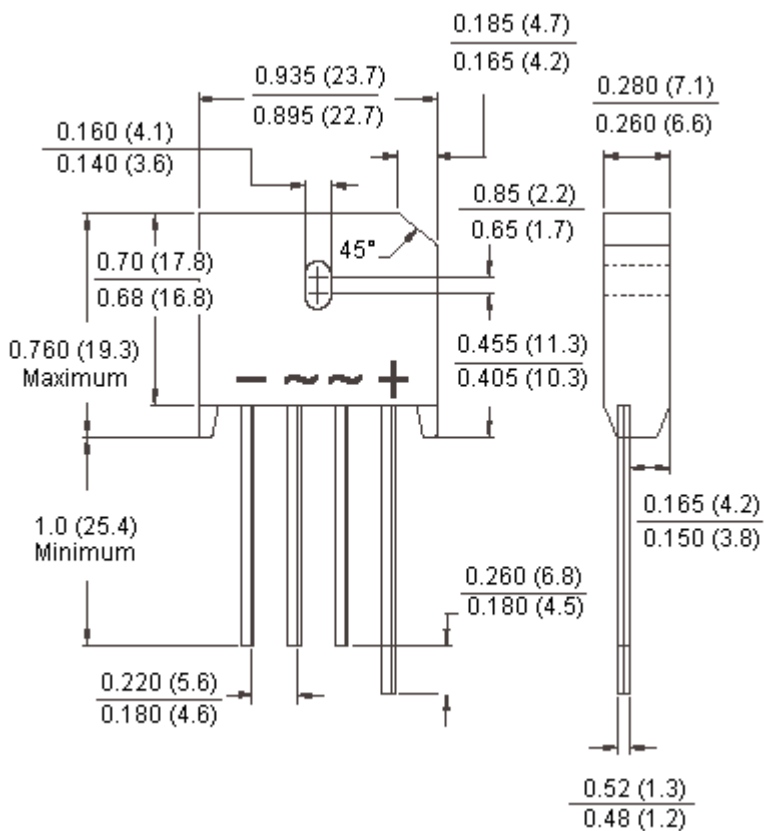




## Features:

- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction.
- Plastic material.
- Surge overload rating to 200 amperes peak.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch, (9.5mm) lead lengths at 5lbs (2.3kg) tension.
- Weight: 0.3 ounce, 8.0 grams.
- Mounting torque: 5 in. lb. maximum.

## KBU



Dimensions : Inches (Millimetres)

## Maximum Ratings at Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

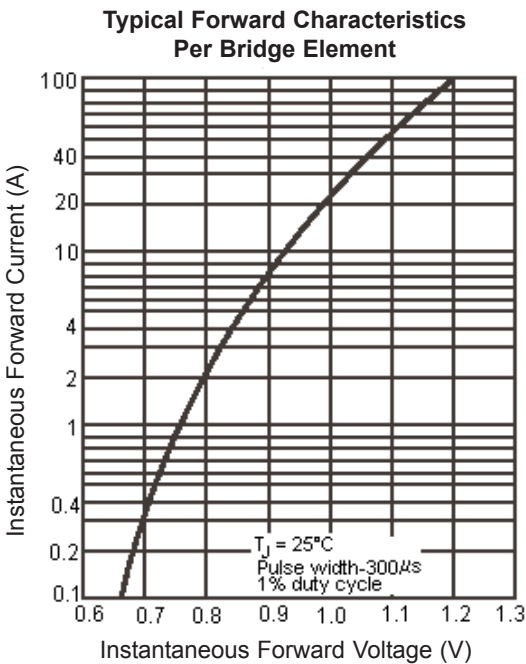
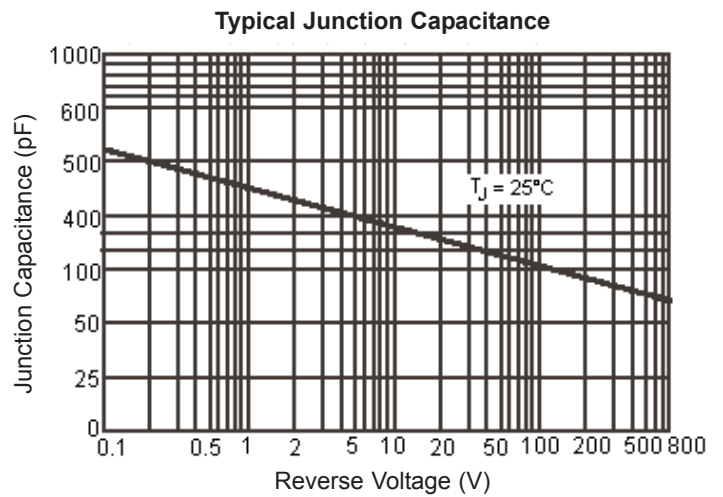
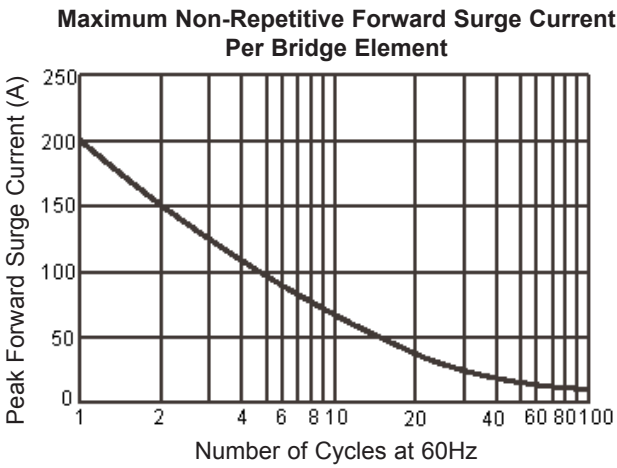
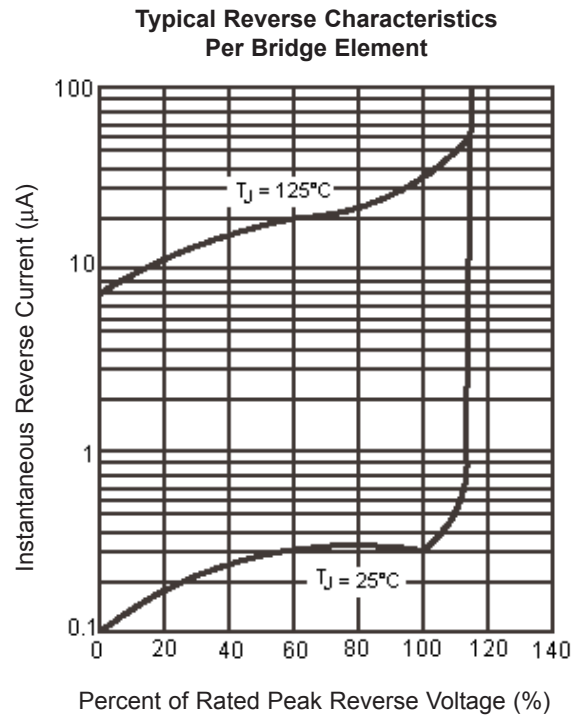
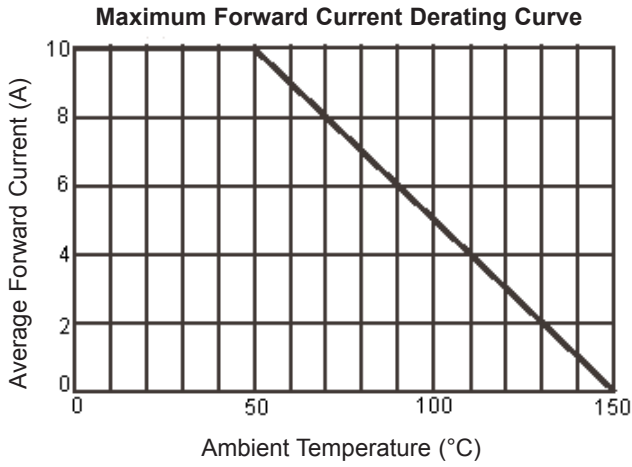
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| Type Number   | Symbol          | KBU1003G    | KBU1005G | KBU1007G | Units                          |
|---|-----------------|-------------|----------|----------|--------------------------------|
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$       | 200         | 600      | 1000     | V                              |
| Maximum RMS Voltage   | $V_{RMS}$       | 140         | 420      | 700      |                                |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 200         | 600      | 1000     |                                |
| Maximum Average Forward Rectified Current at $T_A = 45^\circ\text{C}$   | $I_{(AV)}$      | 10.0        |          |          | A                              |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )                  | $I_{FSM}$       | 200         |          |          |                                |
| Maximum Instantaneous Forward Voltage at 5.0A<br>at 10.0A   | $V_F$           | 1.0<br>1.1  |          |          | V                              |
| Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$<br>at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$ | $I_R$           | 5.0<br>500  |          |          | $\mu\text{A}$<br>$\mu\text{A}$ |
| Typical Thermal Resistance (Note)   | $R_{\theta JC}$ | 2.2         |          |          | $^\circ\text{C}/\text{W}$      |
| Operating Temperature Range   | $T_J$           | -55 to +150 |          |          | $^\circ\text{C}$               |
| Storage Temperature Range   | $T_{STG}$       |             |          |          |                                |

Note: Thermal Resistance from Junction to Case with Device Mounted on 4 x 6 x 0.25 inches Heatsink.

## Ratings and Characteristic Curves (KBU1003G thru KBU1007G)



## Part Number Table

| Description                  | Part Number |
|------------------------------|-------------|
| Bridge Rectifier, 10A, 200V  | KBU1003G    |
| Bridge Rectifier, 10A, 600V  | KBU1005G    |
| Bridge Rectifier, 10A, 1000V | KBU1007G    |

## Notes:

## International Sales Offices:

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