

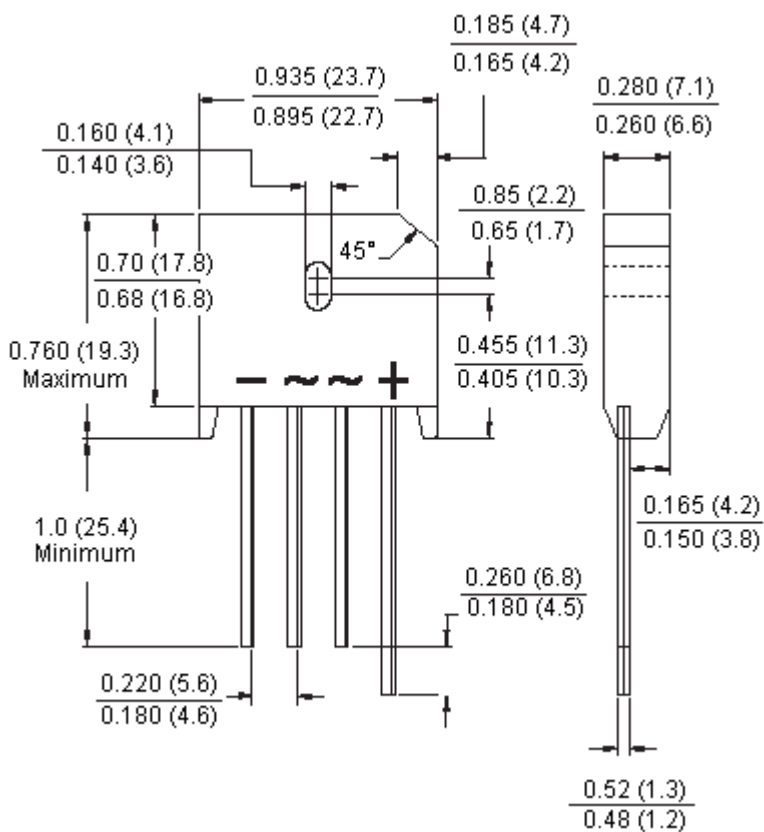


Features:

- High surge current capability.
- Ideal for printed circuit board.
- Reliable low cost construction.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch (9.5mm) lead lengths at 5lbs., (2.3kg) tension.
- Weight: 8 grams.



KBU



Dimensions : Inches (Millimetres)

Maximum Ratings at Electrical Characteristics

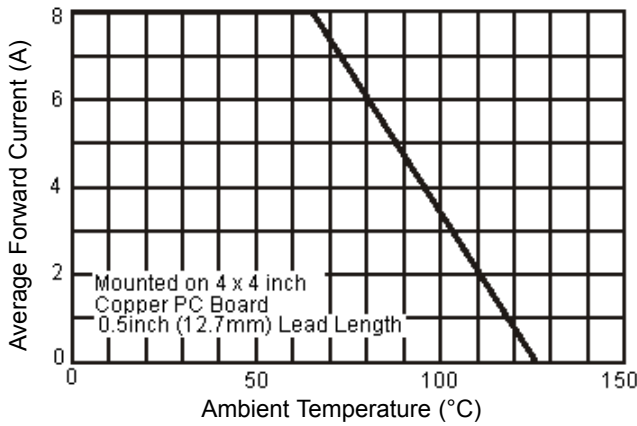
Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

| Type Number | Symbol | KBU 802 | KBU 803 | KBU 805 | KBU 806 | KBU 807 | Units |
|---|------------------------------------|-------------|---------|---------|---------|---------|--------------------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 100 | 200 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 70 | 140 | 420 | 560 | 700 | |
| Maximum DC Blocking Voltage | V_{DC} | 100 | 200 | 600 | 800 | 1000 | |
| Maximum Average Forward Rectified Current at $T_A = 65^\circ\text{C}$ | $I_{(AV)}$ | 8.0 | | | | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 300 | | | | | |
| Maximum Instantaneous Forward Voltage at 4.0A at 8.0A | V_F | 1.0 1.1 | | | | | V |
| Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$ | I_R | 10 500 | | | | | μA μA |
| Typical Thermal Resistance (Note) (Note) | $R_{\theta JA}$ $R_{\theta JC}$ | 18 3.0 | | | | | $^\circ\text{C}/\text{W}$ |
| Operating Temperature Range | T_J | -55 to +125 | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | |

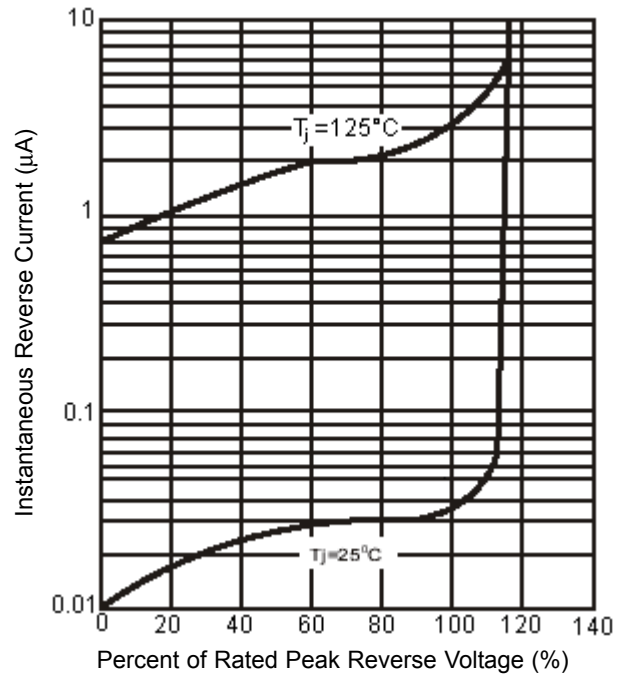
Note: Thermal Resistance from Junction to Ambient and Junction to Case with Units Mounted on.
 2 x 3inches x 0.25 Al-Plate.

Ratings and Characteristic Curves (KBU802, 803, 805 thru KBU807)

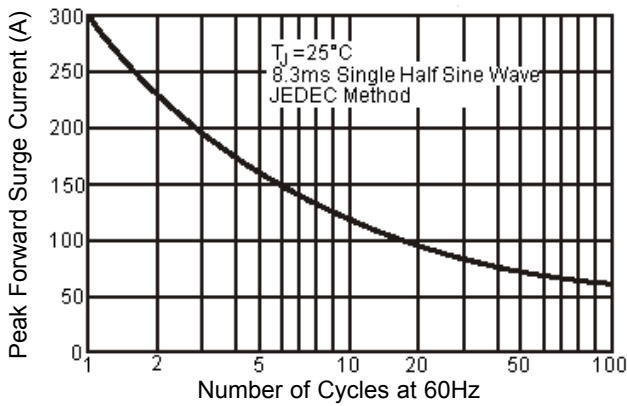
Maximum Forward Current Derating Curve



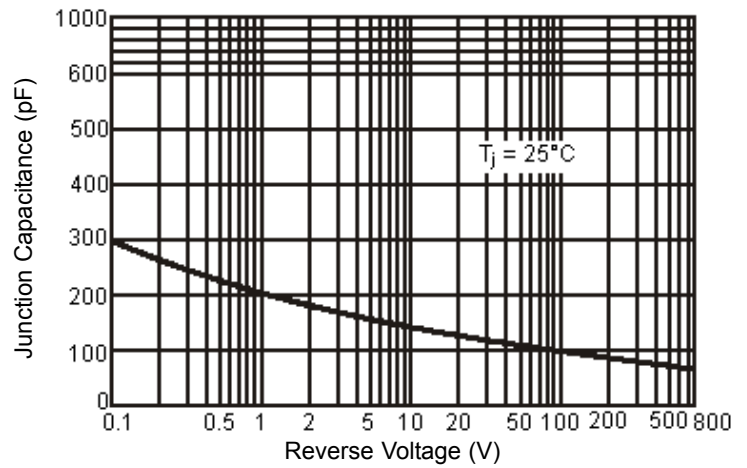
Typical Reverse Characteristics Per Bridge Element



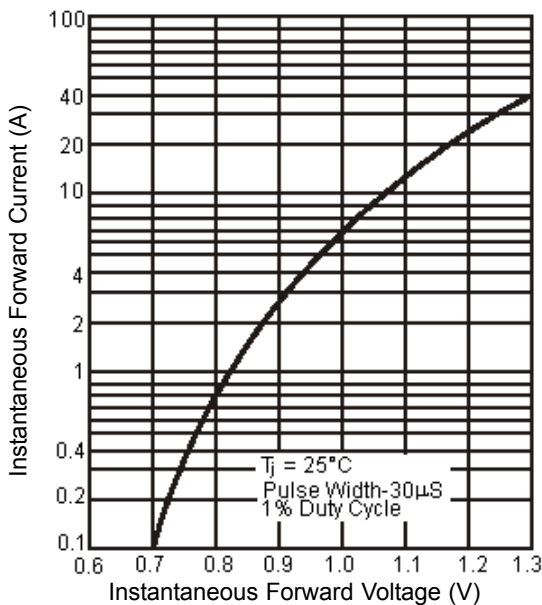
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Junction Capacitance



Typical Instantaneous Forward Characteristics Per Bridge Element



Part Number Table

| Description | Part Number |
|-----------------------------|-------------|
| Bridge Rectifier, 8A, 100V | KBU802 |
| Bridge Rectifier, 8A, 200V | KBU803 |
| Bridge Rectifier, 8A, 600V | KBU805 |
| Bridge Rectifier, 8A, 800V | KBU806 |
| Bridge Rectifier, 8A, 1000V | KBU807 |

Notes:

International Sales Offices:

| | | | | | | | |
|--|---|---|---|---|--|---|--|
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<http://www.cpc.co.uk>

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