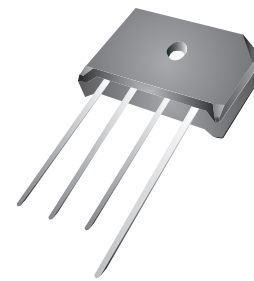


KBU8005-G Thru. KBU810-G

Reverse Voltage: 50 to 1000V

Forward Current: 8.0A

RoHS Device

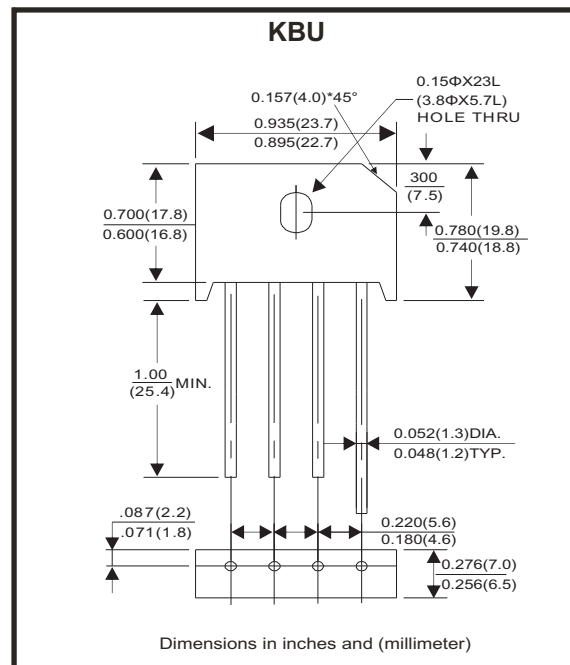


Features

- Surge overload rating - 200 amperes peak.
- Ideal for printed circuit board.
- Plastic material has U/L flammability classification 94V-0

Mechanical Data

- Case: Molded plastic, KBU
- Mounting position: Any
- Weight: 7.40grams



Maximum ratings and 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%

| Parameter | Symbol | KBU 8005-G | KBU 801-G | KBU 802-G | KBU 804-G | KBU 806-G | KBU 808-G | KBU 810-G | Unit |
|--|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Maximum Recurrent 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 Output Current @ $T_C=100^\circ C$ | $I_{(AV)}$ | 8.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | I_{FSM} | 200 | | | | | | | A |
| Maximum Instantaneous Forward Voltage Drop per Element at 4.0A | V_F | 1.0 | | | | | | | V |
| Maximum Reverse Leakage Current @ $T_J=25^\circ C$ At Rate DC Blocking Voltage @ $T_J=100^\circ C$ | I_R | 10 300 | | | | | | | μA |
| Typical Junction Capacitance Per Element (Note1) | C_J | 250 | | | | | | | pF |
| Operating Temperature Range | T_J | -55 to +125 | | | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ C$ |

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Company reserves the right to improve product design , functions and reliability without notice.

Rating and Characteristics Curves (KBU8005-G Thru. KBU810-G)

Fig.1 - Derating Curve Output Rectified Current

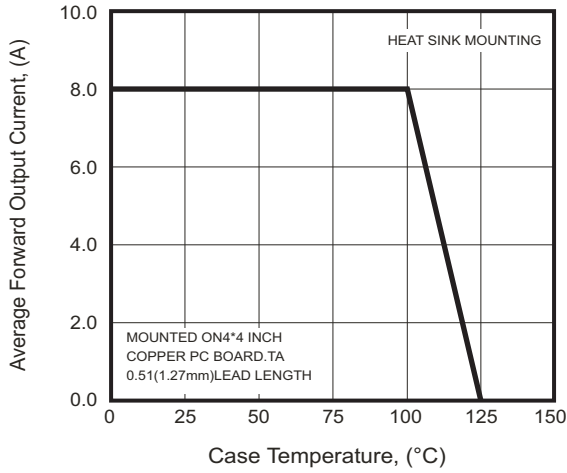


Fig.2 - Typical Forward Characteristics

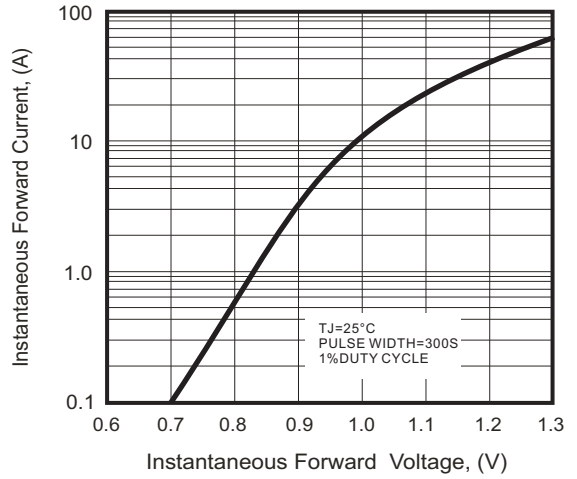


Fig.3 - Maximum Non-retetitive Peak Forward Surge Current

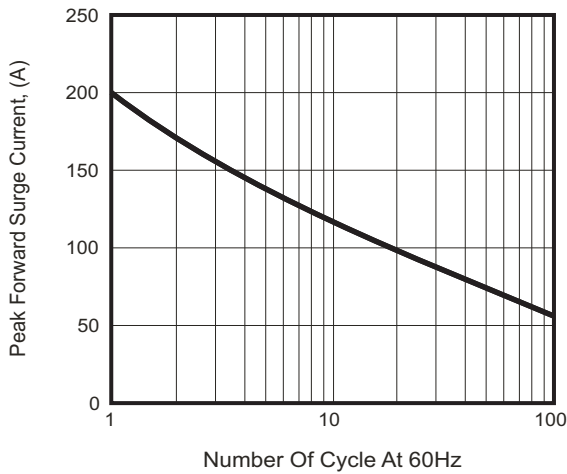


Fig.4 - Typical Junction Capacitance Per Element

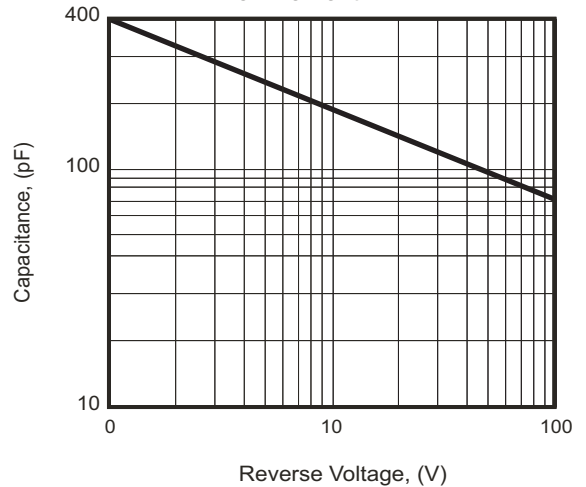
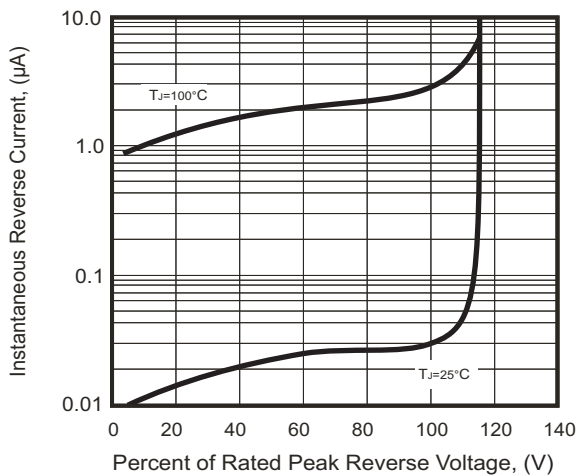
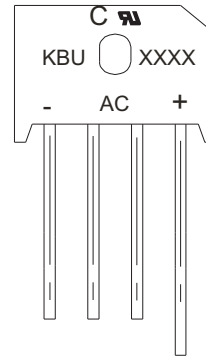


Fig.5 - Typical Reverse Characteristics



Marking Code

| Part Number | Marking code |
|-------------|--------------|
| KBU8005-G | KBU8005 |
| KBU801-G | KBU801 |
| KBU802-G | KBU802 |
| KBU804-G | KBU804 |
| KBU806-G | KBU806 |
| KBU808-G | KBU808 |
| KBU810-G | KBU810 |



XXXX / XXXXX = Product type marking code
 C = Comchip Logo

Standard Packaging

| Case Type | BULK PACK | |
|-----------|----------------|-------------------|
| | BOX (pcs) | CARTON (pcs) |
| KBU | 400 | 2,400 |