

# KBU801G - KBU807G

Single Phase 8.0 AMPS.  
Glass Passivated Bridge Rectifiers  
**KBU**

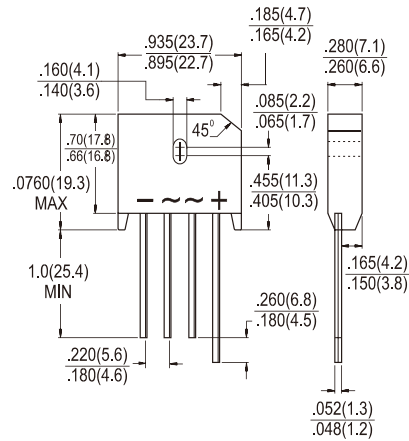


## Features

- ✧ UL Recognized File # E-326243
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ High case dielectric strength
- ✧ Plastic material has Underwriters laboratory flammability Classification 94V-0
- ✧ Typical IR less than 0.1uA
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed:  
260°C / 10 seconds at 5 lbs., ( 2.3 kg ) tension
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode.

## Mechanical Data

- ✧ Case : Molded plastic body
- ✧ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ✧ Weight : 8.0 grams
- ✧ Mounting Torque : 5 in lbs max.



## Dimension in inches and (millimeter)

### Marking Diagram



- KBU80XG = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

## Maximum Ratings and Electrical Characteristics

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

| Type Number  | Symbol                             | KBU 801G    | KBU 802G | KBU 803G | KBU 804G | KBU 805G | KBU 806G | KBU 807G | Units                     |
|--|------------------------------------|-------------|----------|----------|----------|----------|----------|----------|---------------------------|
| 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 Current<br>@ $T_A = 65^\circ\text{C}$  | $I_{F(AV)}$                        | 8.0         |          |          |          |          |          |          | A                         |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )                    | $I_{FSM}$                          | 200         |          |          |          |          |          |          | A                         |
| Rating of fusing ( $t < 8.3\text{ms}$ )  | $I^2t$                             | 166.0       |          |          |          |          |          |          | $\text{A}^2\text{S}$      |
| Maximum Instantaneous Forward Voltage @ 4.0A<br>@ 8.0A   | $V_F$                              | 1.0<br>1.1  |          |          |          |          |          |          | V                         |
| Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$<br>at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$ (Note 1) | $I_R$                              | 5.0<br>500  |          |          |          |          |          |          | $\mu\text{A}$             |
| Typical Junction Capacitance per leg (Note 3)  | $C_J$                              | 400         |          |          |          |          |          |          | pF                        |
| Typical Thermal Resistance (Note 2)  | $R_{\theta JA}$<br>$R_{\theta JC}$ | 18<br>3.0   |          |          |          |          |          |          | $^\circ\text{C}/\text{W}$ |
| Operating Temperature Range  | $T_J$                              | -55 to +150 |          |          |          |          |          |          | $^\circ\text{C}$          |
| Storage Temperature Range  | $T_{STG}$                          | -55 to +150 |          |          |          |          |          |          | $^\circ\text{C}$          |

Note : 1. Pulse Test with PW=300 usec, 1% Duty Cycle.  
2. Unit case mounted on 4" x 6" x 0.25" Al plate heat sink.  
3. Measured at 1MHz and applied Reverse bias of 4.0V DC.

### RATINGS AND CHARACTERISTIC CURVES (KBU801G THRU KBU807G)

