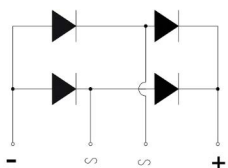
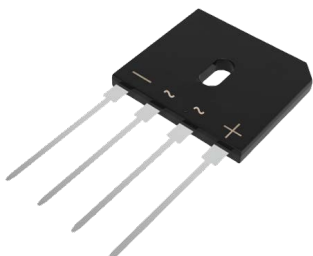


## Low VF Bridge Rectifiers



### Features

- Glass Passivated Chip Junction
- Low IRRM
- Low VF
- High VRRM

### Benefits

- Case: GBU
- Terminals: Solderable Per MIL-STD-750
- Reduced power loss and switching transistor
- Reduced snubbing

### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter                                                                                         | Symbols        | GBU806L    | Units |
|---------------------------------------------------------------------------------------------------|----------------|------------|-------|
| Maximum Repetitive Peak Reverse Voltage                                                           | $V_{RRM}$      | 600        | V     |
| Maximum RMS voltage                                                                               | $V_{RMS}$      | 420        | V     |
| Maximum DC Blocking Voltage                                                                       | $V_{DC}$       | 600        | V     |
| Average Rectified Output Current                                                                  | $I_O$          | 8.0        | A     |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) | $I_{FSM}$      | 120        | A     |
| Maximum Forward Voltage at 4.0 A                                                                  | $V_F$          | 0.95       | V     |
| Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C                      | $I_R$          | 5<br>100   | μA    |
| Typical Junction Capacitance (Note1)                                                              | $C_j$          | 25         | pF    |
| Operating and Storage Temperature Range                                                           | $T_j, T_{stg}$ | -55 ~ +150 | °C    |
| Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.                                   |                |            |       |

## RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Current Derating, Case

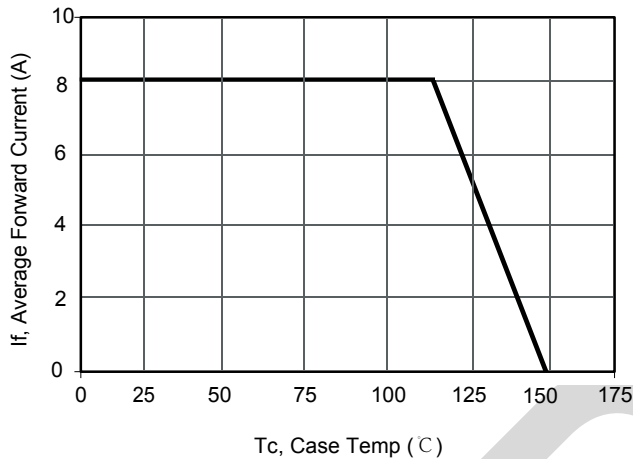


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

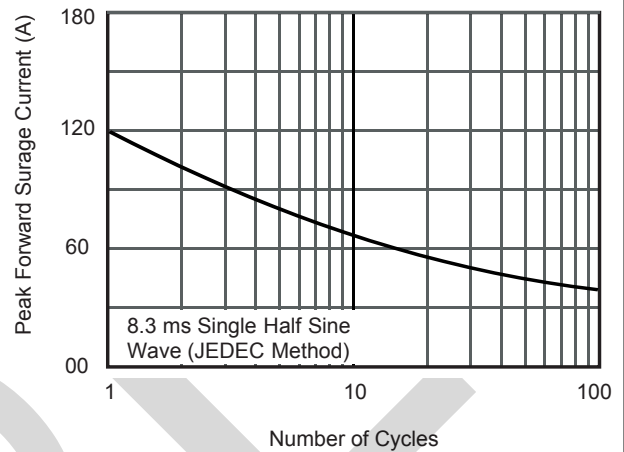


Fig.3 Typical Forward Voltage

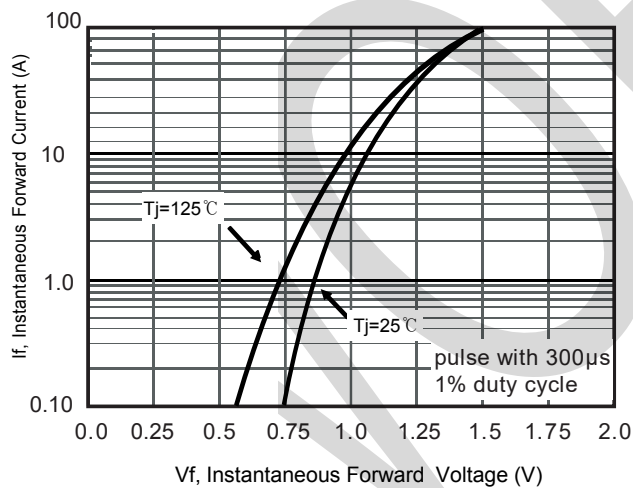
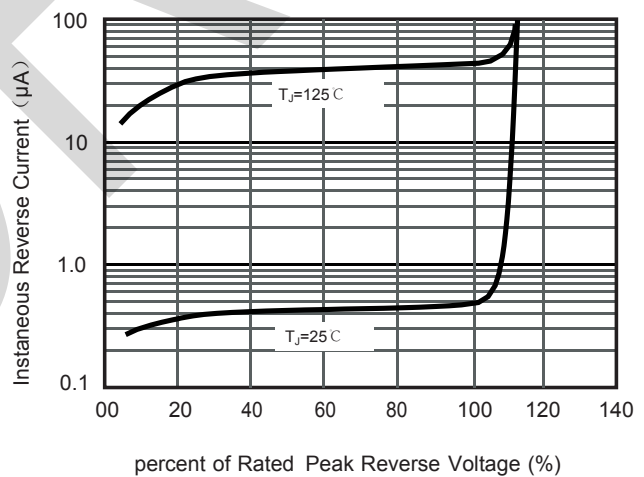
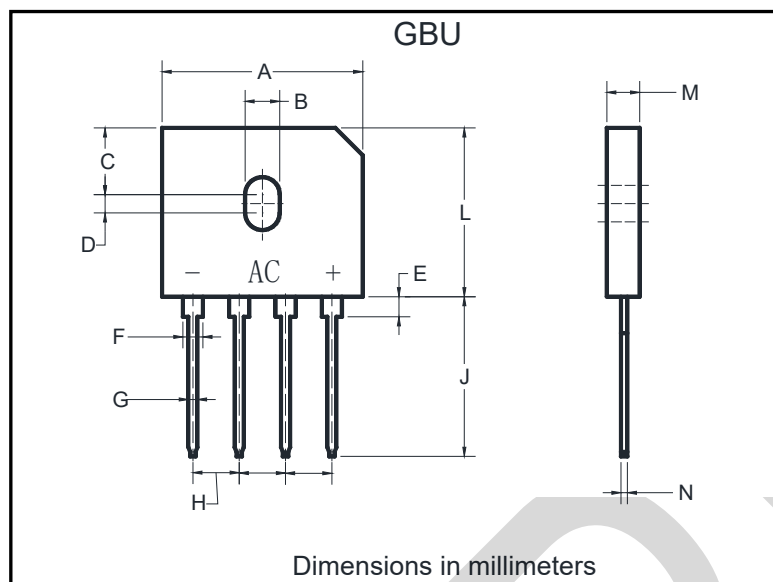


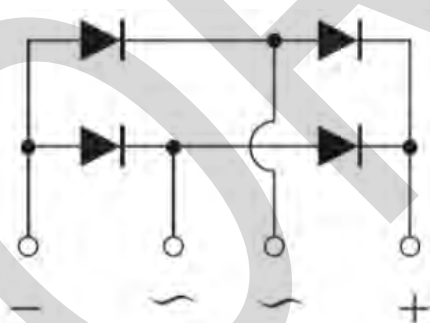
Fig.4 Typical Reverse Characteristics



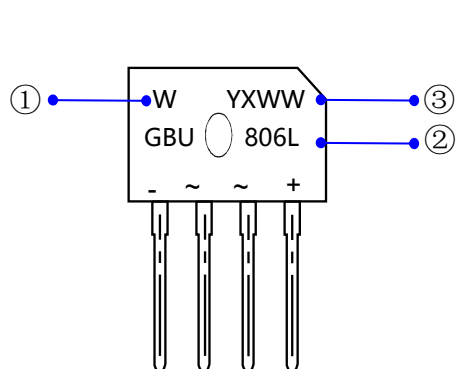
## PACKAGE OUTLINE DIMENSIONS



| <b>GBU</b> |       |       |
|------------|-------|-------|
| Dim        | Min   | Max   |
| A          | 21.70 | 22.50 |
| B          | 3.40  | 4.10  |
| C          | 7.40  | 8.00  |
| D          | 1.65  | 2.26  |
| E          | 2.25  | 2.85  |
| F          | 2.05  | 2.4   |
| G          | 1.02  | 1.37  |
| H          | 4.83  | 5.43  |
| J          | 17.0  | 18.6  |
| L          | 18.3  | 18.9  |
| M          | 3.30  | 3.66  |
| N          | 0.46  | 0.66  |

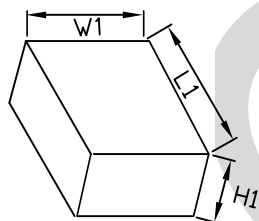


## Marking Information

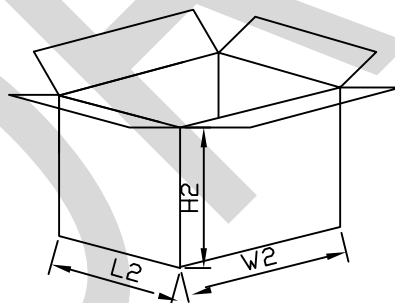


## Packaging Information

### 1. Inside Box



### 2. Outside Box



## Packaging Information

| NO   | UNIT                                                          | Inside Box    |     |    | Outside Box                      |     |     |
|------|---------------------------------------------------------------|---------------|-----|----|----------------------------------|-----|-----|
| Size | mm                                                            | L1            | W1  | H1 | L2                               | W2  | H2  |
|      |                                                               | 228           | 110 | 43 | 460                              | 240 | 235 |
| QTY  | PCS                                                           | 250PCS/carton |     |    | 5,000PCS/carton,20boxes in total |     |     |
| Note | Tolerance    ≤20mm,±3mm;    21-100mm,±5mm;    101-500mm,±10mm |               |     |    |                                  |     |     |