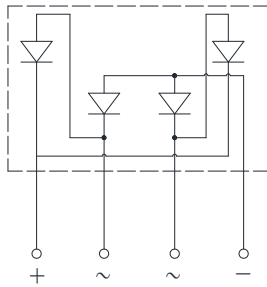
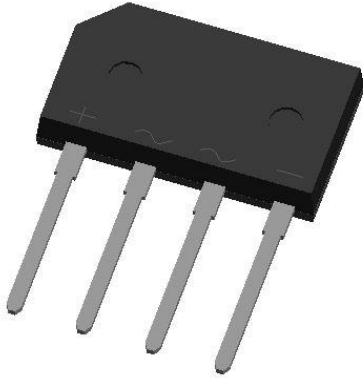


## Bridge Rectifiers



### Features

- UL recognition, file #E230084
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

### Mechanical Data

- **Package:** 2KBJ  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

| PARAMETER  | SYMBOL           | UNIT             | GBJ2005   | GBJ201 | GBJ202 | GBJ204 | GBJ206 | GBJ208 | GBJ210 |
|--|------------------|------------------|-----------|--------|--------|--------|--------|--------|--------|
| Device marking code  |                  |                  | GBJ2005   | GBJ201 | GBJ202 | GBJ204 | GBJ206 | GBJ208 | GBJ210 |
| Repetitive peak reverse voltage  | VRRM             | V                | 50        | 100    | 200    | 400    | 600    | 800    | 1000   |
| Average Rectified Output Current<br>@60Hz sine wave, R-load, Ta=25°C           | IO               | A                | 2.0       |        |        |        |        |        |        |
| Surge(non-repetitive)forward current<br>@60HZ half-sine wave, 1 cycle, Tj=25°C | IFSM             | A                | 90        |        |        |        |        |        |        |
| Current squared time<br>@1ms≤t<8.3ms Tj=25°C,rating of per diode               | I <sup>2</sup> t | A <sup>2</sup> S | 33        |        |        |        |        |        |        |
| Storage temperature  | Tstg             | °C               | -55 ~+150 |        |        |        |        |        |        |
| Junction temperature   | Tj               | °C               | -55 ~+150 |        |        |        |        |        |        |

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER   | SYMBOL | UNIT | TEST CONDITIONS | GBJ2005 | GBJ201 | GBJ202 | GBJ204 | GBJ206 | GBJ208 | GBJ210 |
|---|--------|------|-----------------|---------|--------|--------|--------|--------|--------|--------|
| Maximum instantaneous forward voltage drop per diode              | VF     | V    | IFM=1.0A        | 1.00    |        |        |        |        |        |        |
| Maximum DC reverse current at rated DC blocking voltage per diode | IRRM   | μA   | VRM=VRRM        | 5       |        |        |        |        |        |        |



# GBJ2005 THRU GBJ210

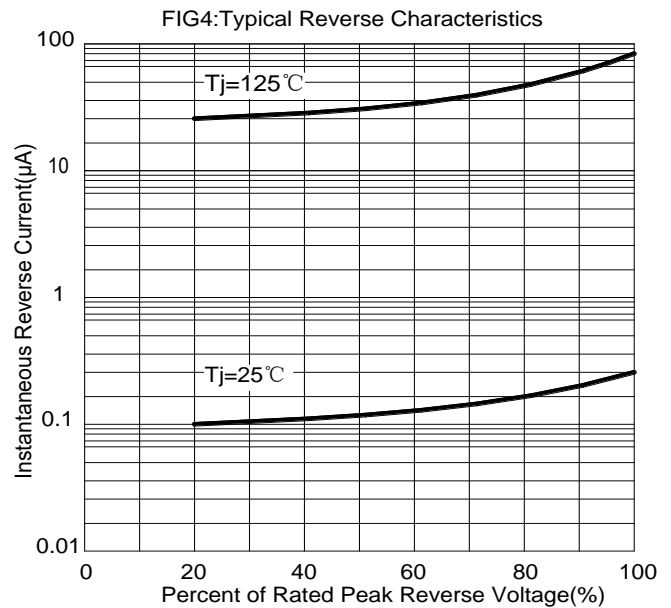
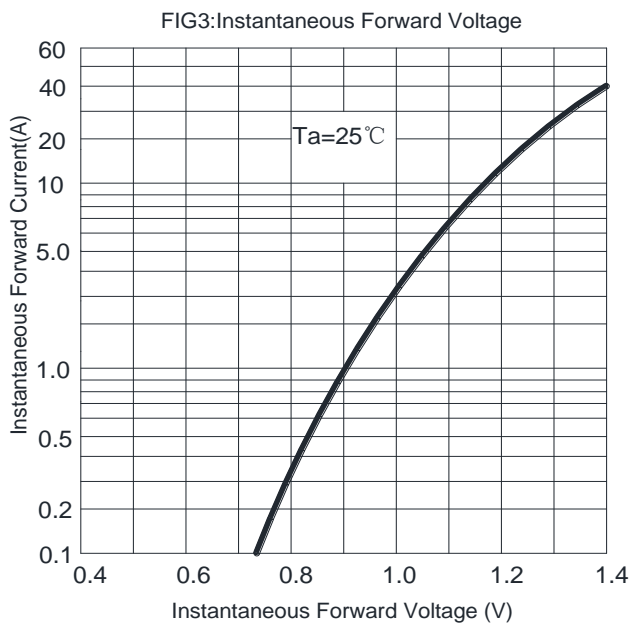
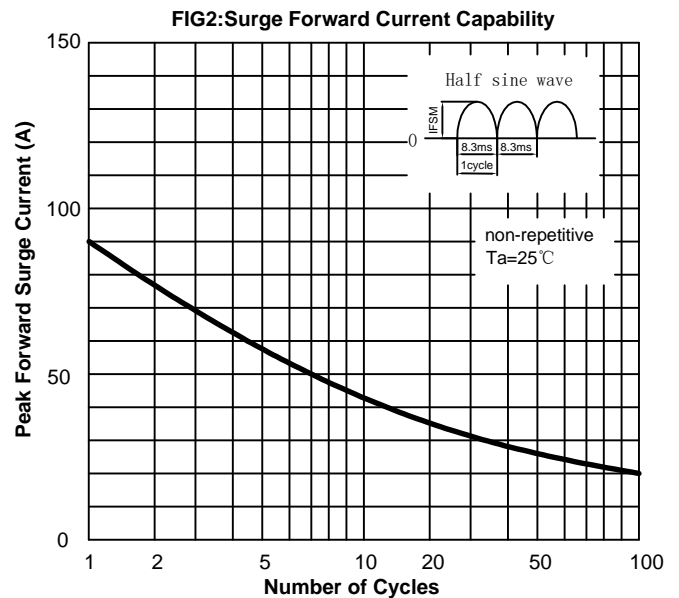
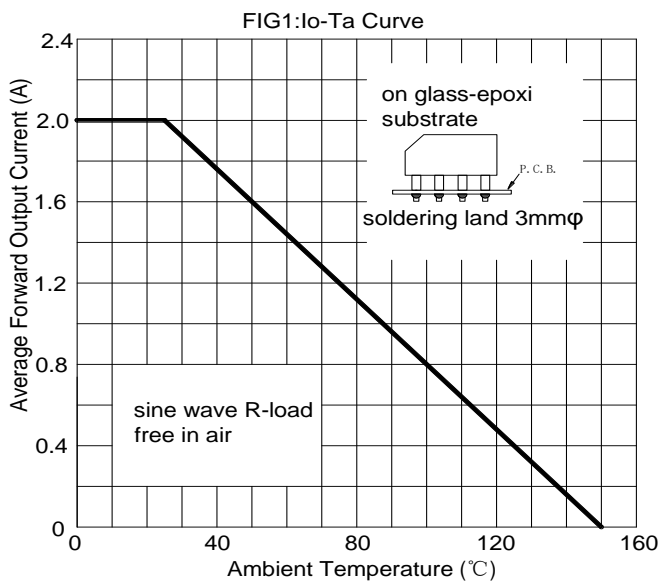
## ■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER          |                              | SYMBOL         | UNIT | GBJ2005 | GBJ201 | GBJ202 | GBJ204 | GBJ206 | GBJ208 | GBJ210 |
|--------------------|------------------------------|----------------|------|---------|--------|--------|--------|--------|--------|--------|
| Thermal Resistance | Between junction and ambient | R $\theta$ J-A | °C/W | 47.0    |        |        |        |        |        |        |
|                    | Between junction and case,   | R $\theta$ J-C |      | 10.0    |        |        |        |        |        |        |

## ■ Ordering Information (Example)

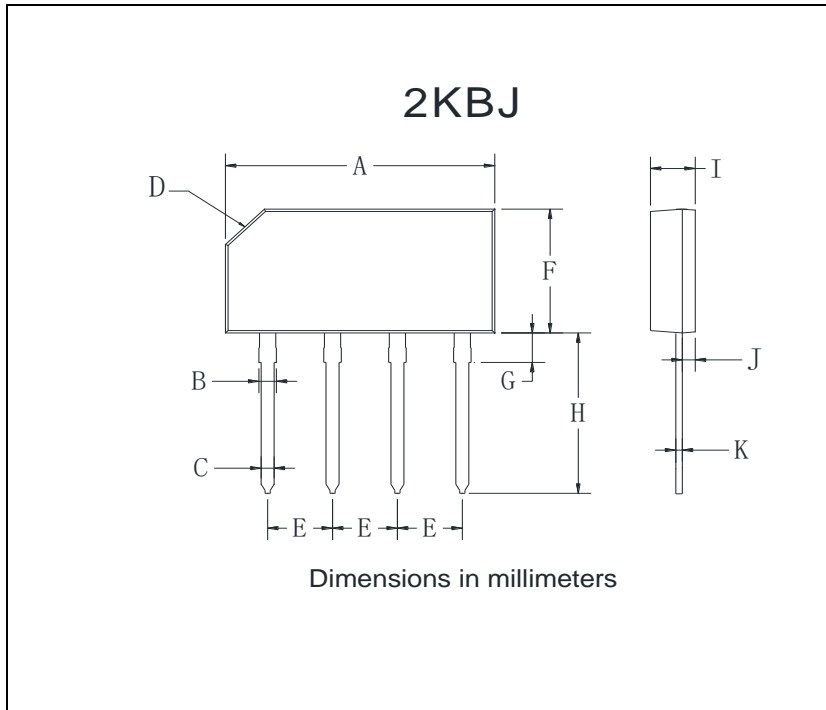
| PREFERRED P/N  | PACKAGE CODE | UNIT WEIGHT(g)   | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|----------------|--------------|------------------|----------------------|-------------------------|----------------------------|---------------|
| GBJ2005-GBJ210 | B1           | Approximate 2.19 | 22                   | 1320                    | 5280                       | Tube          |

## ■ Characteristics (Typical)





## ■ Outline Dimensions



| 2KBJ |          |      |
|------|----------|------|
| Dim  | Min      | Max  |
| A    | 19.2     | 21.2 |
| B    | 1.2      | 1.8  |
| C    | 1.0      | 1.2  |
| D    | Typ: 3.0 |      |
| E    | 4.9      | 5.1  |
| F    | 10.5     | 11.5 |
| G    | 2.0      | 3.0  |
| H    | 13.0     | 15.0 |
| I    | 3.0      | 4.0  |
| J    | 0.9      | 1.1  |
| K    | 0.4      | 0.6  |



## GBJ2005 THRU GBJ210

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