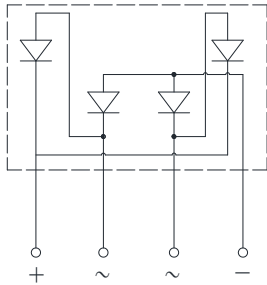
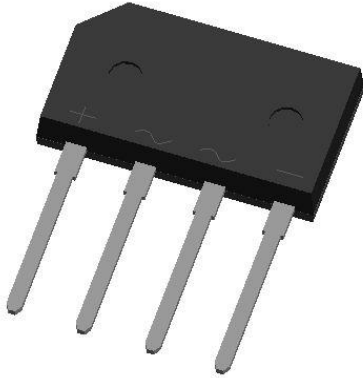


Bridge Rectifiers



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 (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | GBL2005 | GBL201 | GBL202 | GBL204 | GBL206 | GBL208 | GBL210 |
|---|------------------|------------------|-----------|--------|--------|--------|--------|--------|--------|
| Device marking code | | | GBL2005 | GBL201 | GBL202 | GBL204 | GBL206 | GBL208 | GBL210 |
| Repetitive peak reverse voltage | VRRM | V | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Average Rectified Output Current @60Hz sine wave, R-load, T _a =25°C | I _O | A | 2.0 | | | | | | |
| Surge(non-repetitive)forward current @60HZ half-sine wave, 1 cycle, T _j =25°C | I _{FSM} | A | 90 | | | | | | |
| Current squared time @1ms≤t<8.3ms T _j =25°C, rating of per diode | I ² t | A ² S | 33 | | | | | | |
| Storage temperature | T _{stg} | °C | -55 ~+150 | | | | | | |
| Junction temperature | T _j | °C | -55 ~+150 | | | | | | |

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

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | GBL2005 | GBL201 | GBL202 | GBL204 | GBL206 | GBL208 | GBL210 |
|---|------------------|------|-----------------------------------|---------|--------|--------|--------|--------|--------|--------|
| Maximum instantaneous forward voltage drop per diode | V _F | V | IFM=1.0A | 1.00 | | | | | | |
| Maximum DC reverse current at rated DC blocking voltage per diode | I _{RRM} | μA | V _{RM} =V _{RRM} | 5 | | | | | | |



GBL2005 THRU GBL210

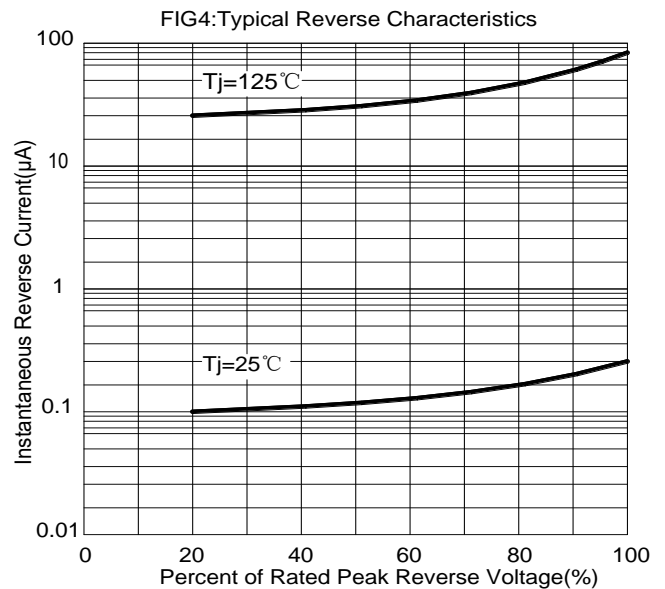
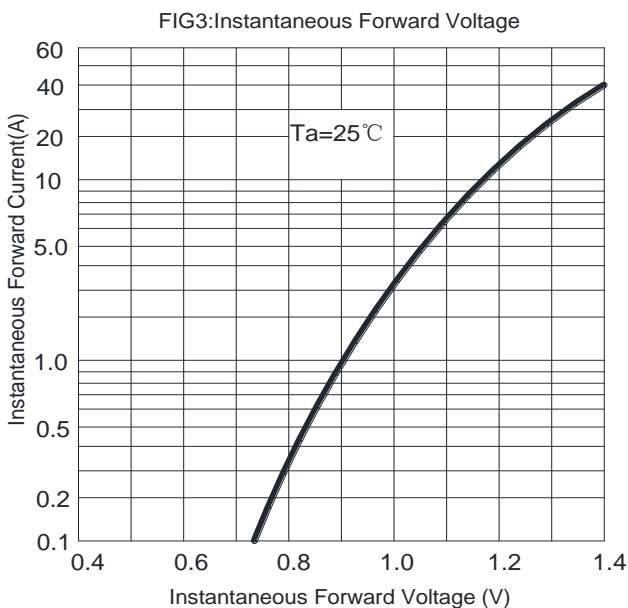
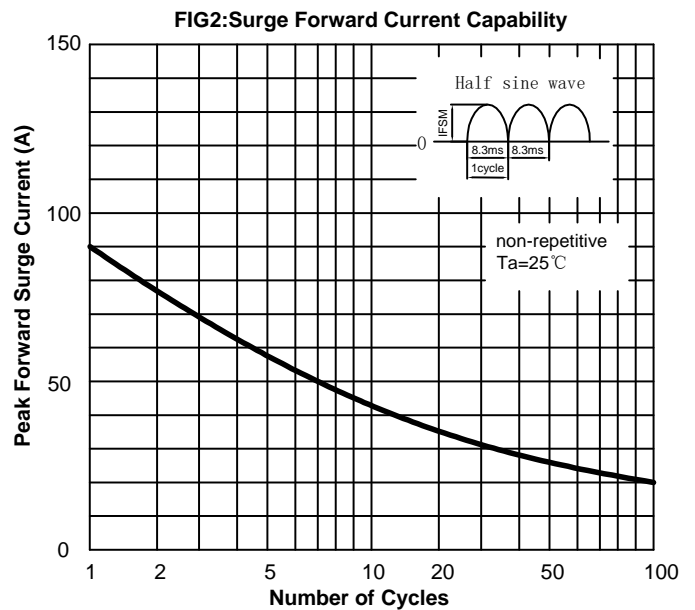
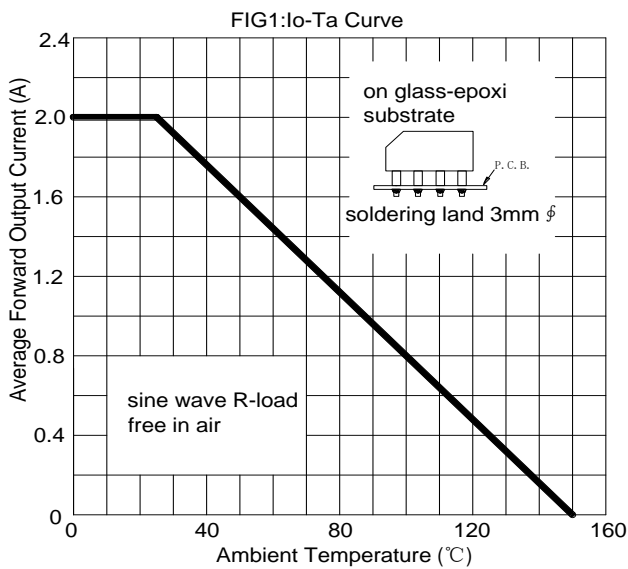
■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

| PARAMETER | | SYMBOL | UNIT | GBL2005 | GBL201 | GBL202 | GBL204 | GBL206 | GBL208 | GBL210 |
|--------------------|------------------------------|----------------|------|---------|--------|--------|--------|--------|--------|--------|
| Thermal Resistance | Between junction and ambient | R θ J-A | °C/W | 47.0 | | | | | | |
| | Between junction and case | R θ 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 |
|----------------|--------------|------------------|----------------------|-------------------------|----------------------------|---------------|
| GBL2005-GBL210 | B1 | Approximate 2.19 | 22 | 1320 | 5280 | Tube |

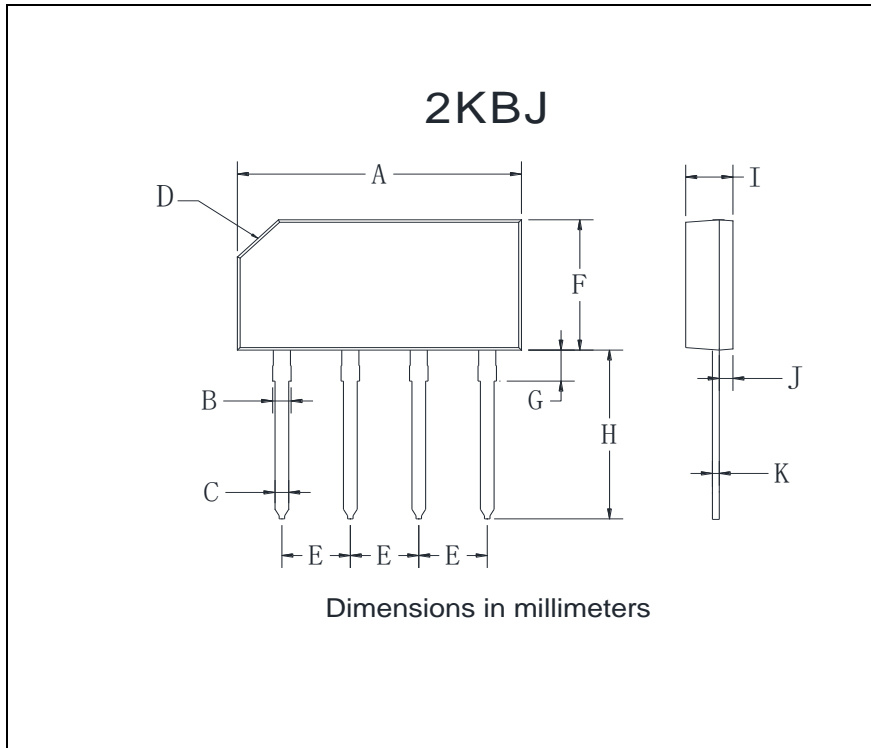
■ Characteristics (Typical)





GBL2005 THRU GBL210

■ 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 |



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