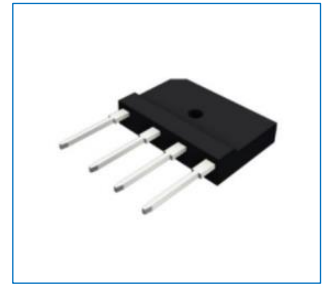


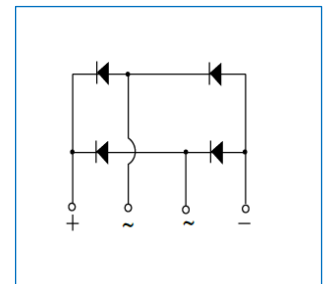
● Features

- Low forward voltage drop, high current capability
- Ideal for printed circuit board
- MSL: Level 1
- Forward Current - 20A
- Epoxy meets UL 94 V-0 flammability rating
- Solder dip 275 °C max. 7 s, per JESD 22-B106



● Mechanical Data

- Case: GBJ package



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

| PARAMETER | SYMBOL | WGBJ 20005 | WGBJ 2001 | WGBJ 2002 | WGBJ 2004 | WGBJ 2006 | WGBJ 2008 | WGBJ 2010 | UNIT |
|---|-----------------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|
| Maximum repetitive 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 (with heatsink) | I _{F(AV)} | 20 | | | | | | | A |
| Peak forward surge current 8.3ms single half-sine wave superimposed on rated load | I _{FSM} | 300 | | | | | | | A |
| Rating for fusing (t<8.3ms) | I ² t | 373 | | | | | | | A ² s |
| Operating and Storage temperature range | T _J , T _{STG} | -55 ~ +150 | | | | | | | °C |
| Mounting torque @Recommend torque: 5kg·cm | T _{or} | 8 | | | | | | | kg·cm |

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

| PARAMETER | SYMBOL | WGBJ 20005 | WGBJ 2001 | WGBJ 2002 | WGBJ 2004 | WGBJ 2006 | WGBJ 2008 | WGBJ 2010 | UNIT |
|--|-----------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| Maximum instantaneous forward voltage at I _F =10A | V _F | 1.0 | | | | | | | V |
| Maximum DC reverse current at rated DC blocking voltage | T _J =25°C | 5 | | | | | | | μA |
| | T _J =125°C | 200 | | | | | | | |
| Typical Junction Capacitance at V _R =4V, f=1MHz | C _j | 80 | | | | | | | pF |
| Between Junction to Case (with heatsink) | R _{θJ-C} | 1.5 | | | | | | | °C/W |

● Typical Characteristics

FIG.1 Forward Current Derating Curve

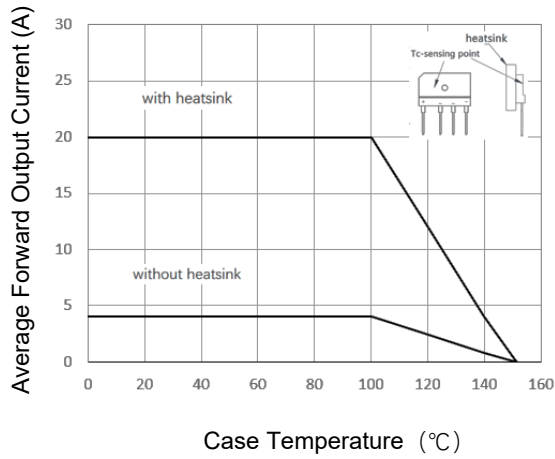


FIG. 2 Forward Surge Current Capability

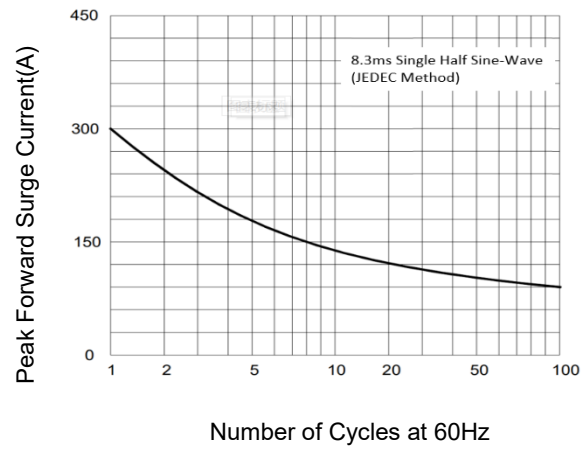


FIG. 3 Typical Forward Characteristics

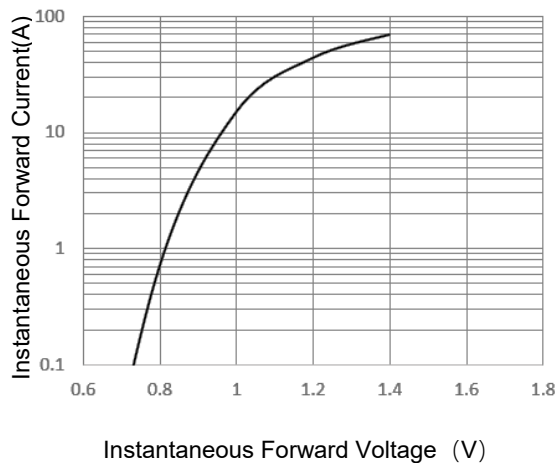
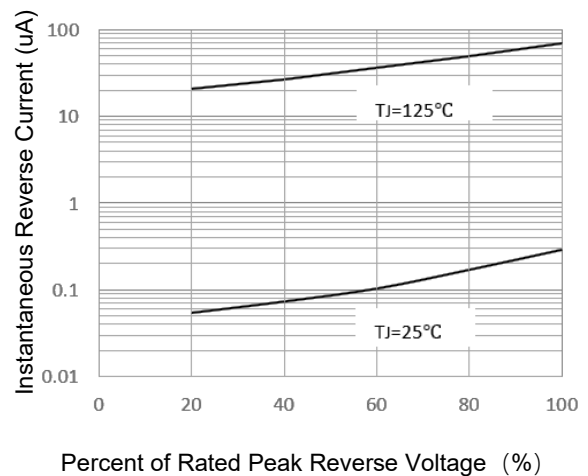
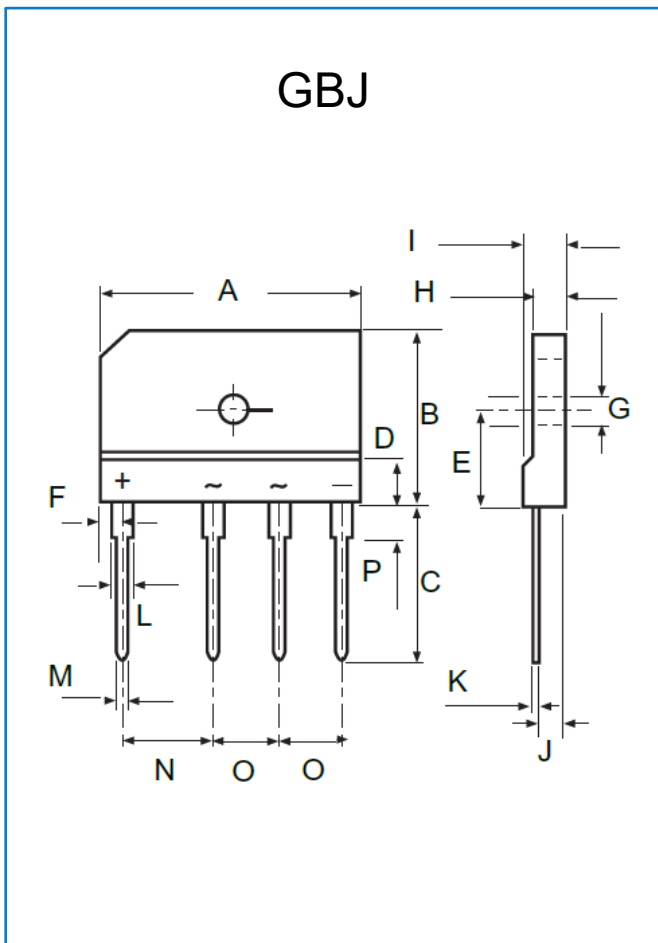


FIG.4 Typical Reverse Characteristics



Note: The above typical parameters or typical characteristics are only indicative and do not make specific guarantees. If detailed values are required, additional communication and provision are required.

● Outline Drawing



| GBJ | | |
|--------|---------------------------|-------|
| Symbol | Dimensions In Millimeters | |
| | Min | Max |
| A | 29.70 | 30.30 |
| B | 19.70 | 20.30 |
| C | 17.00 | 18.00 |
| D | 4.70 | 5.10 |
| E | 10.80 | 11.20 |
| F | 2.30 | 2.70 |
| G | 3.10 | 3.40 |
| H | 3.40 | 3.80 |
| I | 4.40 | 4.80 |
| J | 2.50 | 2.90 |
| K | 0.60 | 0.80 |
| L | 1.90 | 2.40 |
| M | 0.90 | 1.10 |
| N | 9.80 | 10.20 |
| O | 7.30 | 7.70 |
| P | 3.80 | 4.20 |

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Product Specification Statement

1. The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

2. The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. WAYON shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and WAYON assumes no responsibility for the application of the product.

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