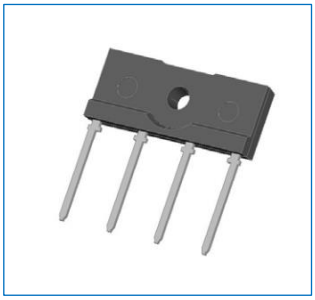
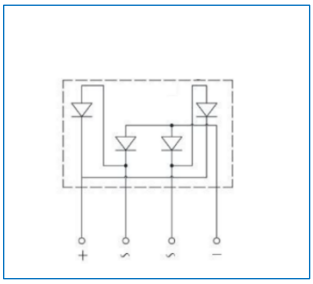
# WKBJL4xx

Glass Passivated Bridge Rectifiers





## Features

- Low forward voltage drop，high current capability
- Ideal for printed circuit board
- MSL: Level 1
- Forward Current - 4A
- Epoxy meets UL 94 V-0 flammability rating
- Solder dip 275 °C max. 7 s, per JESD 22-B106

## Mechanical Data

- Case: KBJL package

## Maximum Ratings (Ta=25℃ Unless otherwise specified)

| PARAMETER | SYMBOL | WKBJ L4005 | WKBJ L401 | WKBJ L402 | WKBJ L404 | WKBJ L406 | WKBJ L408 | WKBJ L410 | 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) | $I_{F(AV)}$ | 4 | | | | | | | A |
| Peak forward surge current 8.3ms single half-sine wave superimposed on rated load | $I_{FSM}$ | 135 | | | | | | | A |
| Rating for fusing (t＜8.3ms) | $I^2t$ | 75.6 | | | | | | | $A^2s$ |
| Operating and Storage temperature range | $T_J$, $T_{STG}$ | -55 ~ +150 | | | | | | | ℃ |
| Mounting torque @Recommend torque：5kg·cm | Tor | 8 | | | | | | | kg·cm |

## Electrical Characteristics(Ta=25℃ Unless otherwise specified)

| PARAMETER | | SYMBOL | WKBJ L4005 | WKBJ L401 | WKBJ L402 | WKBJ L404 | WKBJ L406 | WKBJ L408 | WKBJ L410 | UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Maximum instantaneous forward voltage at IF=2A | | $V_F$ | 1.0 | | | | | | | V |
| Maximum DC reverse current at rated DC blocking voltage | TJ=25℃ | $I_R$ | 5 | | | | | | | μA |
| | TJ=125℃ | | 200 | | | | | | | |
| Typical Junction Capacitance at VR=4V, f=1MHz | | $C_j$ | 40 | | | | | | | pF |
| Between Junction to Case (with heatsink) | | $R_{\theta J-C}$ | 3.5 | | | | | | | ℃/W |

## Typical Characteristics

FIG.1 Forward Current Derating Curve

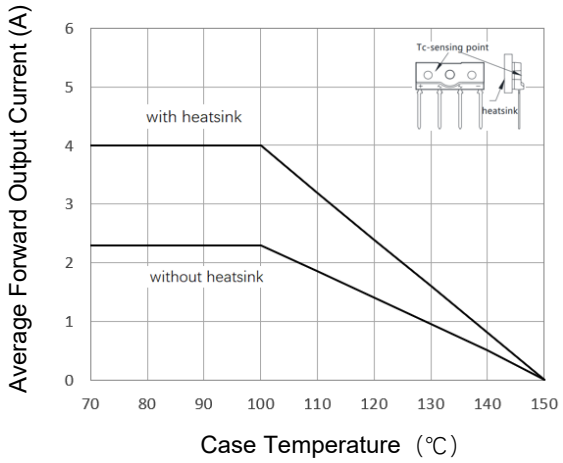



FIG. 2 Forward Surge Current Capability

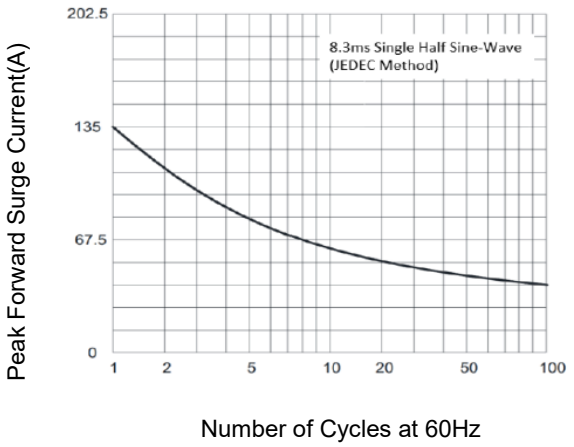



FIG. 3 Typical Forward Characteristics

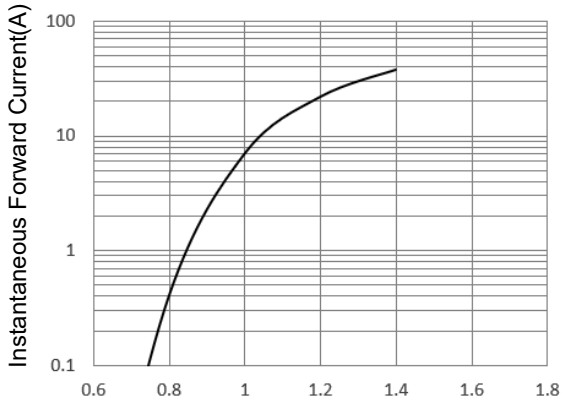
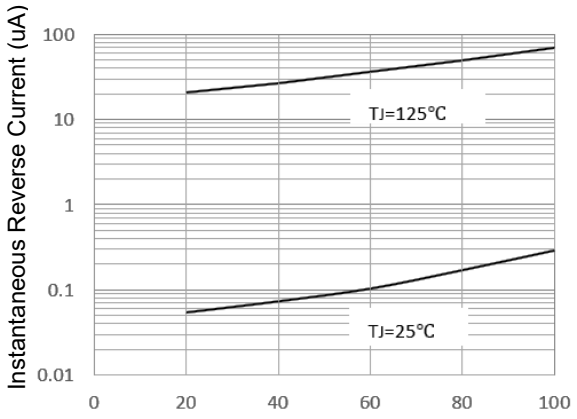


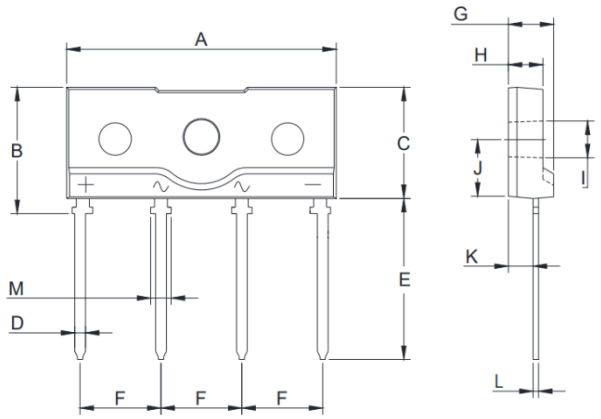

FIG.4 Typical Reverse Characteristics




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

KBJL




| KBJL | | |
|---|---|---|
| Symbol | Dimensions In Millimeters | |
| | Min | Max |
| A | 24.50 | 25.50 |
| B | 11.20 | 12.20 |
| C | 10.00 | 10.80 |
| D | 0.80 | 1.20 |
| E | 14.00 | 15.20 |
| F | 7.00 | 7.90 |
| G | 4.00 | 4.80 |
| H | 2.80 | 4.10 |
| I | 3.10 | 3.60 |
| J | 5.30 | 6.10 |
| K | 2.00 | 3.00 |
| L | 0.40 | 0.70 |
| M | 1.20 | 2.30 |

## Contact Information

No.1001, Shiwan(7) Road, Pudong District, Shanghai, P.R.China.201207
Tel: 86-21-50310888 Fax: 86-21-50757680 Email: market@way-on.com
WAYON website: http://www.way-on.com
For additional information, please contact your local Sales Representative.
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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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4.Users are advised to pay attention to the parameter limit values specified in the product specification and maintain a certain margin in design or application to ensure that the product does not exceed the parameter limit values defined in the product specification. This precaution should be taken to avoid exceeding one or more of the limit values, which may result in permanent irreversible damage to the product, ultimately affecting the quality and reliability of the system or equipment.

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