

#### ■ Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

#### ■ Applications

- General purpose use in AC/DC bridge full wave rectification

#### ■ Mechanical Data

- Case: 4KBJ
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



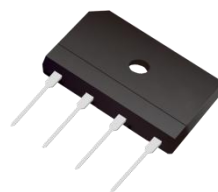
#### Reverse Voltage

50-1000 V

#### Forward Current

8.0 A max

#### Appearance Image



#### ■ Marking

- KBJ8xx(005~10)

#### ■ Maximum Ratings @ Ta = 25°C unless otherwise noted

| PARAMETER                                                                          | SYMBOL      | UNIT | KBJ8005  | KBJ801 | KBJ802 | KBJ804 | KBJ806 | KBJ808 | KBJ810 |
|------------------------------------------------------------------------------------|-------------|------|----------|--------|--------|--------|--------|--------|--------|
| Repetitive peak reverse voltage                                                    | $V_{RRM}$   | V    | 50       | 100    | 200    | 400    | 600    | 800    | 1000   |
| Maximum RMS voltage                                                                | $V_{RMS}$   | V    | 35       | 70     | 140    | 280    | 420    | 560    | 700    |
| Maximum DC blocking Voltage                                                        | $V_{DC}$    | V    | 50       | 100    | 200    | 400    | 600    | 800    | 1000   |
| Maximum average output current@60Hz sine wave, resistance load                     | $I_{F(AV)}$ | A    | 8.0      |        |        |        |        |        |        |
| Peak forward surge current 8.3 ms single half sine wave superimposed on rated load | $I_{FSM}$   | A    | 175      |        |        |        |        |        |        |
| Peak forward surge current 1.0 ms single half sine wave superimposed on rated load |             | A    | 350      |        |        |        |        |        |        |
| Current squared time<br>@1ms≤t<8.3ms Tj=25°C, Rating of per diode                  | Pt          | A²S  | 127.09   |        |        |        |        |        |        |
| Storage temperature                                                                | Tstg        | °C   | -55~+150 |        |        |        |        |        |        |
| Junction temperature                                                               | Tj          | °C   | -55~+150 |        |        |        |        |        |        |

#### ■ Electrical Characteristics @ Ta = 25°C unless otherwise noted

| PARAMETER                                               | TEST CONDITIONS         | SYMBOL | UNIT    | KBJ8005 | KBJ801 | KBJ802 | KBJ804 | KBJ806 | KBJ808 | KBJ810 |
|---------------------------------------------------------|-------------------------|--------|---------|---------|--------|--------|--------|--------|--------|--------|
| Maximum instantaneous forward voltage                   | $I_F=4.0A$              | $V_F$  | V       | 1.0     |        |        |        |        |        |        |
| Maximum DC reverse current at rated DC blocking voltage | $V_R=V_{DC}$ , Tj=25°C  | $I_R$  | $\mu A$ | 5       |        |        |        |        |        |        |
|                                                         | $V_R=V_{DC}$ , Tj=100°C | $I_R$  |         | 500     |        |        |        |        |        |        |

■ Characteristic Curve (Typical)

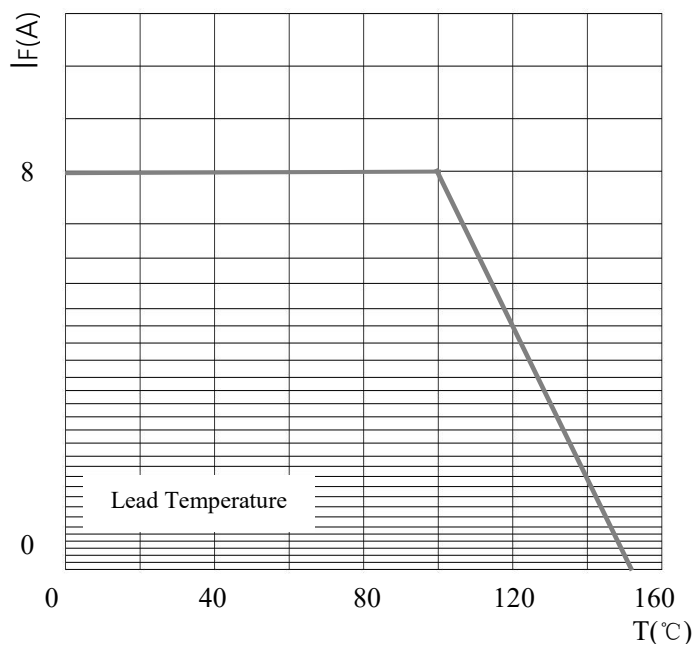


FIG1. Derating Curve For Output Rectified Current

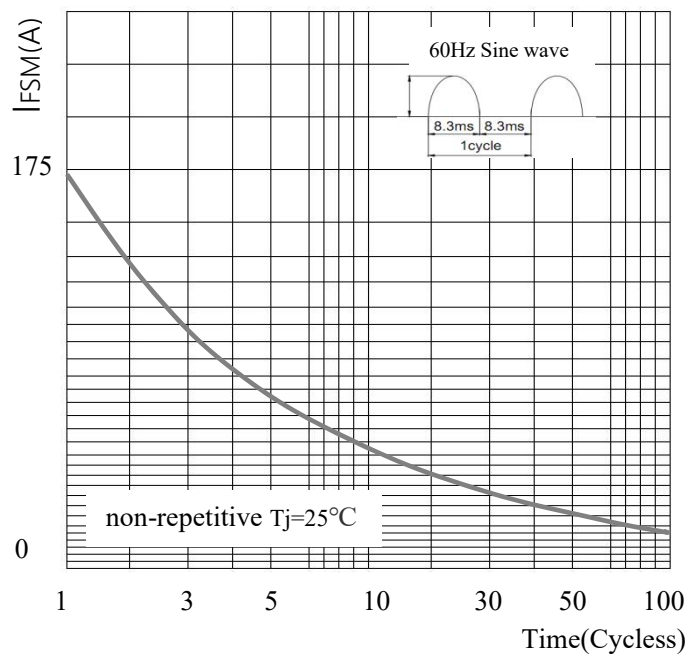


FIG2. Surge Forward Current Capability

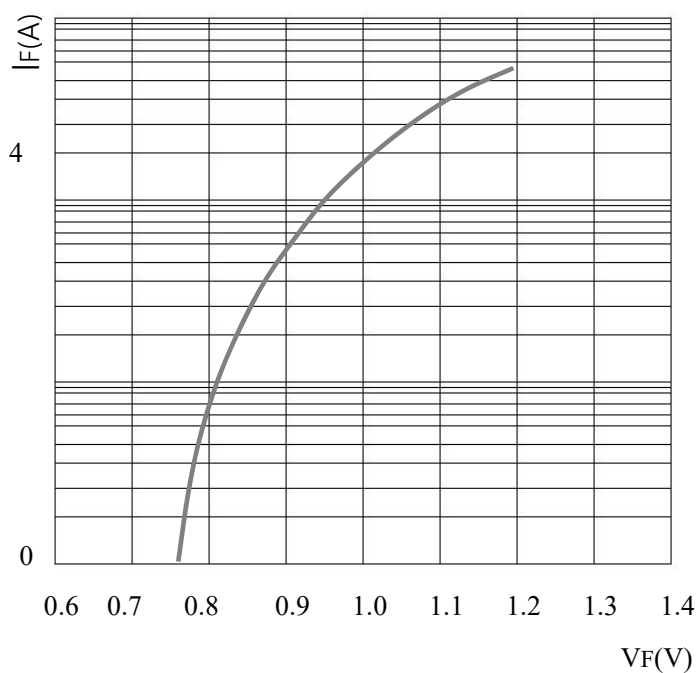


FIG3. Typical Forward Characteristics

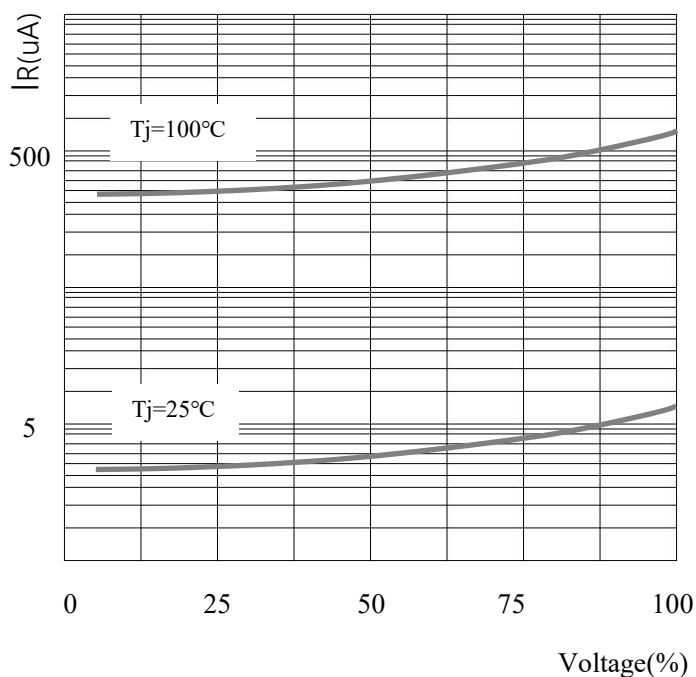
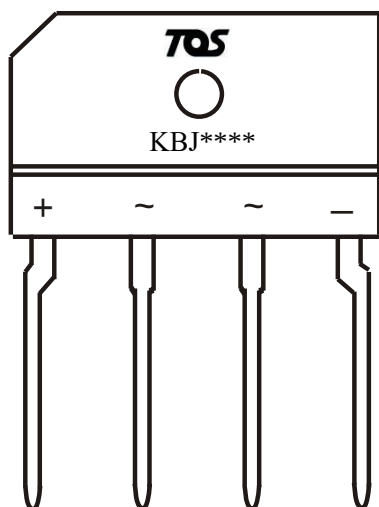


FIG4. Typical Reverse Characteristics

### Marking and packet information

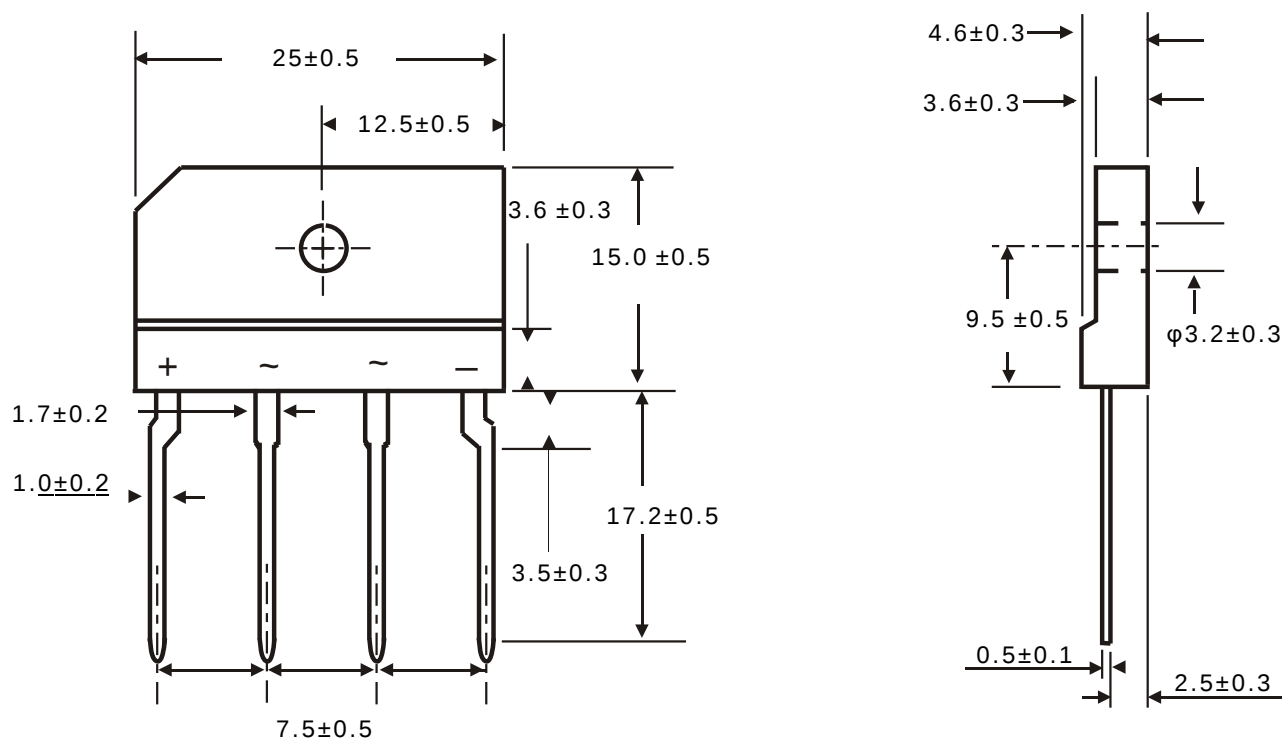


KBJ\*\*\*\* : Marking Model

**TOS** : Brand Logo

| Packaging information |         |
|-----------------------|---------|
| 每盒                    | 250PCS  |
| 每箱                    | 2500PCS |
| 脚长定制                  | 支持      |

### 4KBJ Package outline dimensions



Dimensions in millimeters

### Notice

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