

■ **Features**

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

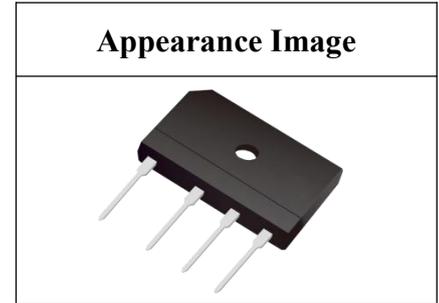
| |
|--------------------------------------|
| Reverse Voltage 50-1000 V |
| Forward Current 60.0 A max |

■ **Applications**

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

■ **Mechanical Data**

- Case: 6KBJ
- 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



■ **Marking**

- KBJ60xx(005~10)

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

| PARAMETER | SYMBOL | UNIT | KBJ60005 | KBJ6001 | KBJ6002 | KBJ6004 | KBJ6006 | KBJ6008 | KBJ6010 |
|--|-------------|------|----------|---------|---------|---------|---------|---------|---------|
| 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 | 60.0 | | | | | | |
| Peak forward surge current 8.3 ms single half sine wave superimposed on rated load | I_{FSM} | A | 550 | | | | | | |
| Peak forward surge current 1.0 ms single half sine wave superimposed on rated load | | A | 1100 | | | | | | |
| Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode | I^2t | A²S | 1255.37 | | | | | | |
| Storage temperature | T_{stg} | °C | -55~+150 | | | | | | |
| Junction temperature | T_j | °C | -55~+150 | | | | | | |

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

| PARAMETER | TEST CONDITIONS | SYMBOL | UNIT | KBJ60005 | KBJ6001 | KBJ6002 | KBJ6004 | KBJ6006 | KBJ6008 | KBJ6010 |
|---|-------------------------|--------|------|----------|---------|---------|---------|---------|---------|---------|
| Maximum instantaneous forward voltage | $I_F=30.0A$ | V_F | V | 1.0 | | | | | | |
| Maximum DC reverse current at rated DC blocking voltage | $V_R=V_{DC}, T_j=25°C$ | I_R | μA | 10 | | | | | | |
| | $V_R=V_{DC}, T_j=100°C$ | | | 500 | | | | | | |

■ **Characteristic Curve (Typical)**

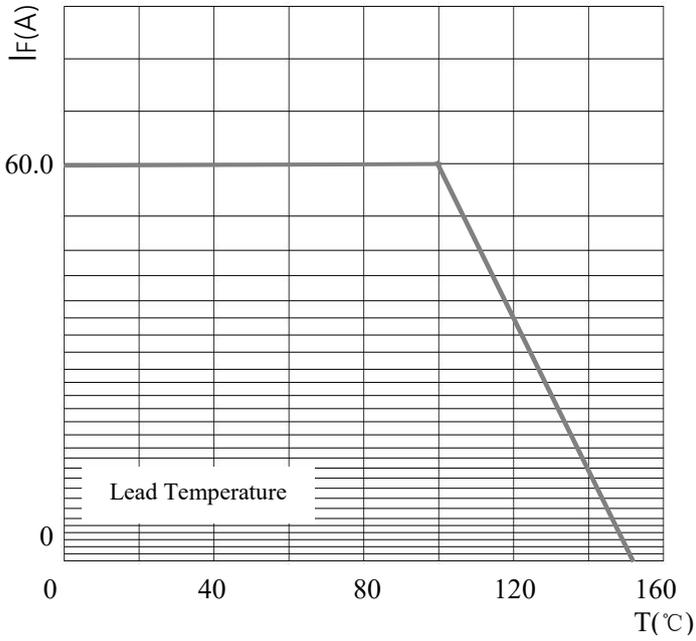


FIG1. Derating Curve For Output Rectified Current

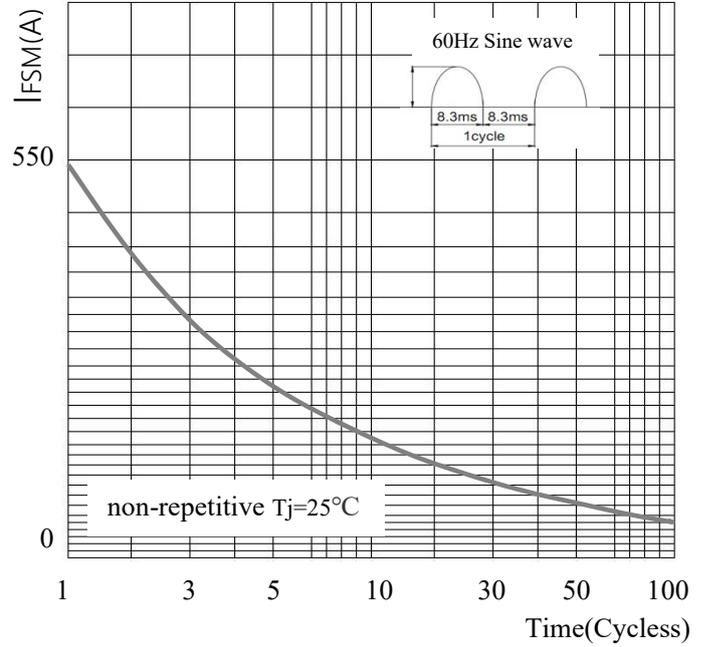


FIG2. Surge Forward Current Capability

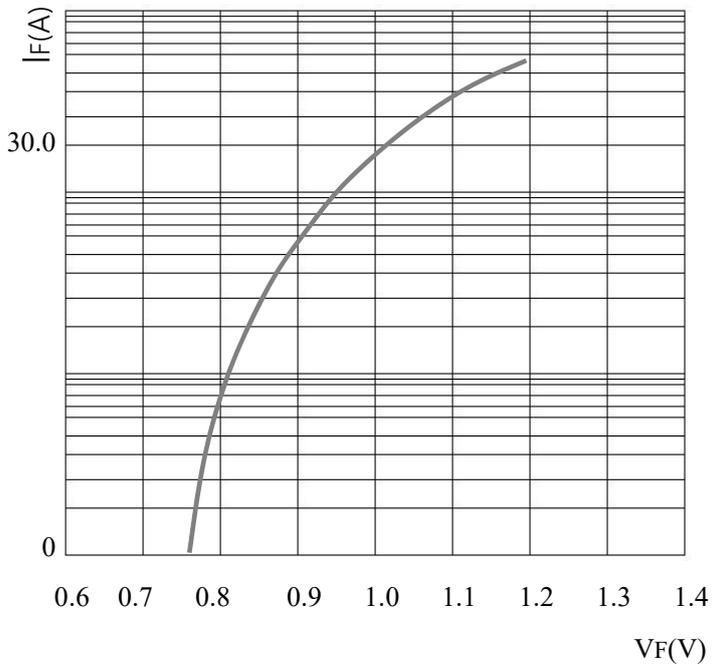


FIG3. Typical Forward Characteristics

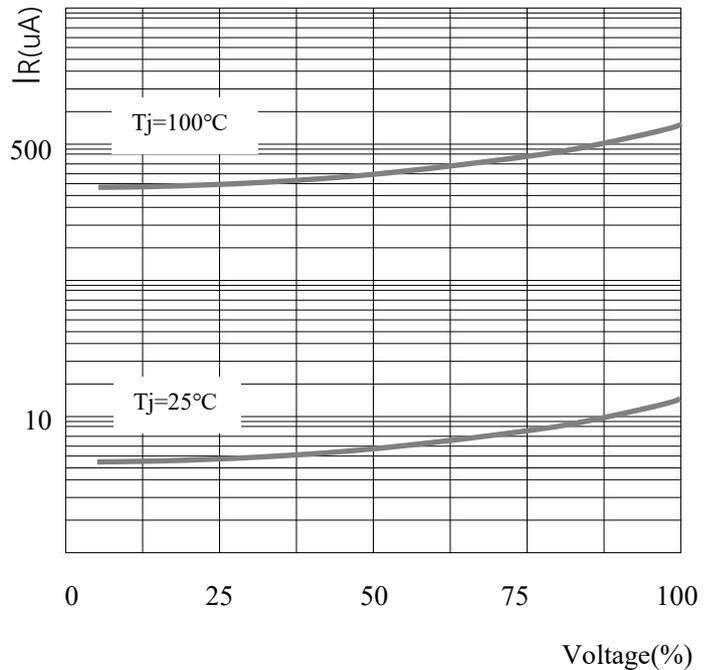
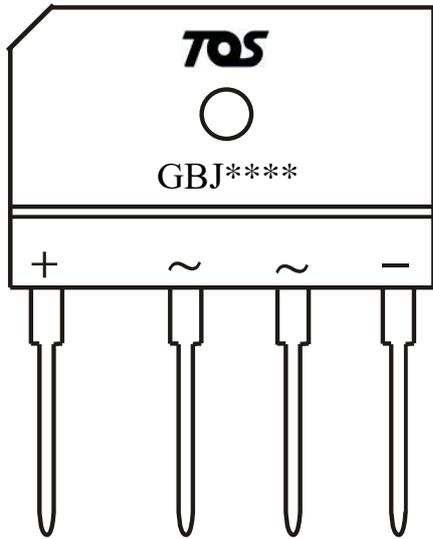


FIG4. Typical Reverse Characteristics

■ **Marking and packet information**

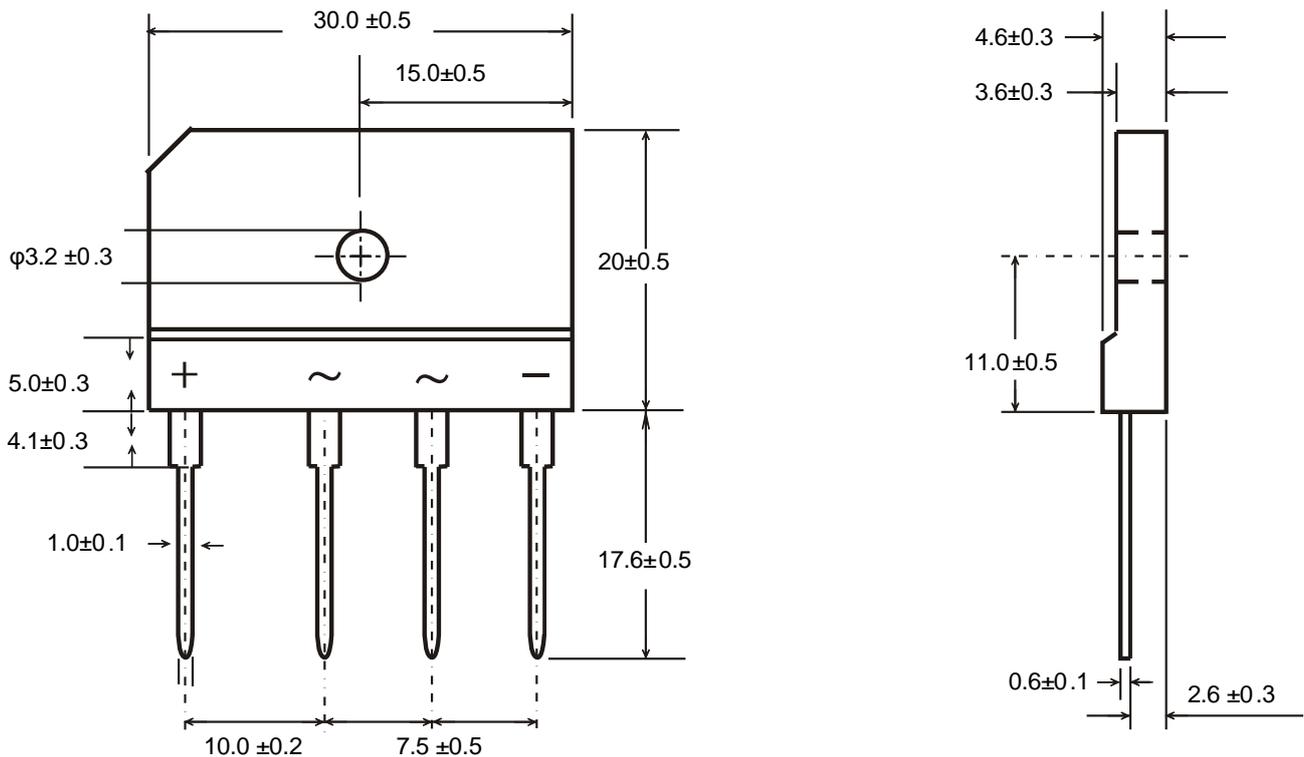


GBJ**** : Marking Model

TOS : Brand Logo

| Packaging information | |
|-----------------------|---------|
| 每盒 | 250PCS |
| 每箱 | 2000PCS |
| 脚长定制 | 支持 |

■ **6KBJ Package outline dimensions**



Dimensions in millimeters

■ **Notice**

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