

## ■ 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: 6GBJ
- 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



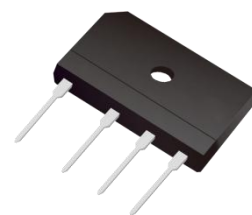
### Reverse Voltage

50-1000 V

### Forward Current

15.0 A max

### Appearance Image



## ■ Marking

- GBJ15x(A~M)

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

| PARAMETER                                                                          | SYMBOL      | UNIT | GBJ15A   | GBJ15B | GBJ15D | GBJ15G | GBJ15J | GBJ15K | GBJ15M |
|------------------------------------------------------------------------------------|-------------|------|----------|--------|--------|--------|--------|--------|--------|
| 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    | 15.0     |        |        |        |        |        |        |
| Peak forward surge current 8.3 ms single half sine wave superimposed on rated load | $I_{FSM}$   | A    | 220      |        |        |        |        |        |        |
| Peak forward surge current 1.0 ms single half sine wave superimposed on rated load |             | A    | 440      |        |        |        |        |        |        |
| Current squared time<br>@1ms≤t<8.3ms Tj=25°C, Rating of per diode                  | $I^2t$      | A²S  | 200.86   |        |        |        |        |        |        |
| 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    | GBJ15A | GBJ15B | GBJ15D | GBJ15G | GBJ15J | GBJ15K | GBJ15M |
|---------------------------------------------------------|-------------------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| Maximum instantaneous forward voltage                   | $I_F=7.5A$              | $V_F$  | V       | 1.0    |        |        |        |        |        |        |
| Maximum DC reverse current at rated DC blocking voltage | $V_R=V_{DC}$ , Tj=25°C  | $I_R$  | $\mu A$ | 10     |        |        |        |        |        |        |
|                                                         | $V_R=V_{DC}$ , Tj=100°C | $I_R$  |         | 500    |        |        |        |        |        |        |

■ Characteristic Curve (Typical)

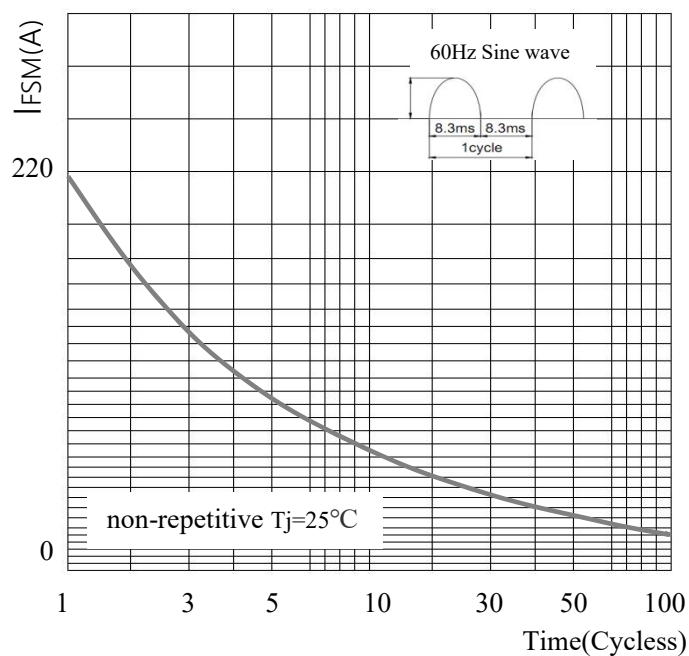
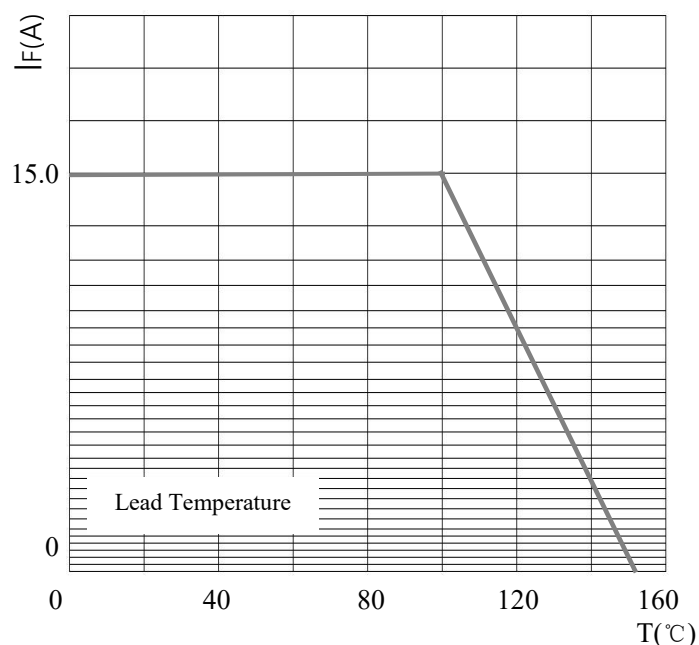


FIG1. Derating Curve For Output Rectified Current

FIG2. Surge Forward Current Capability

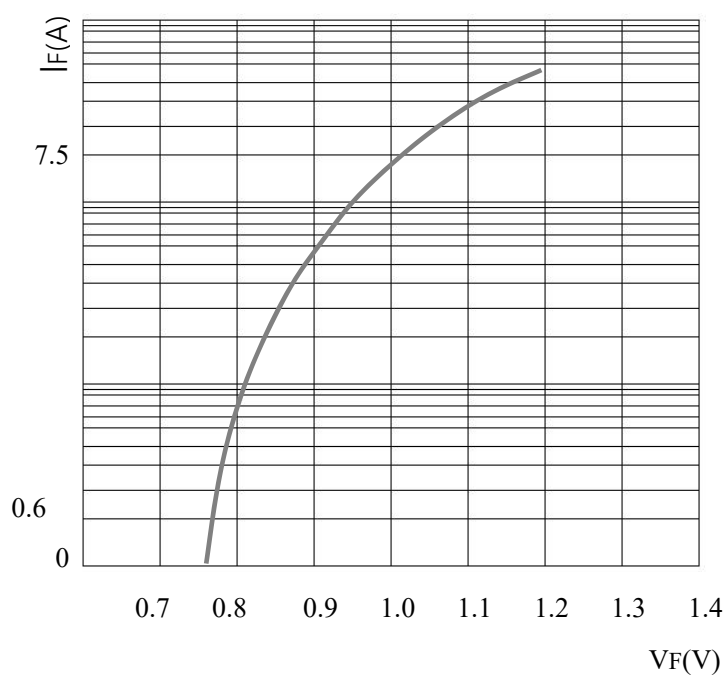


FIG3. Typical Forward Characteristics

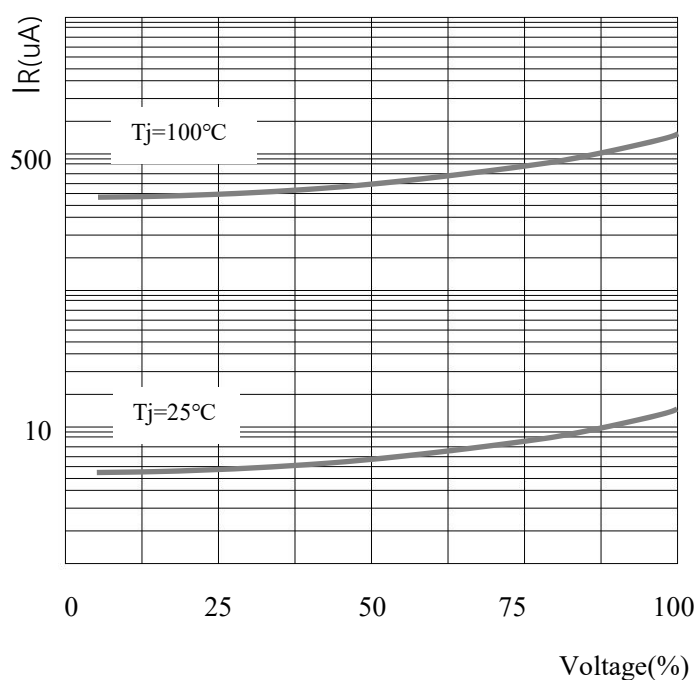
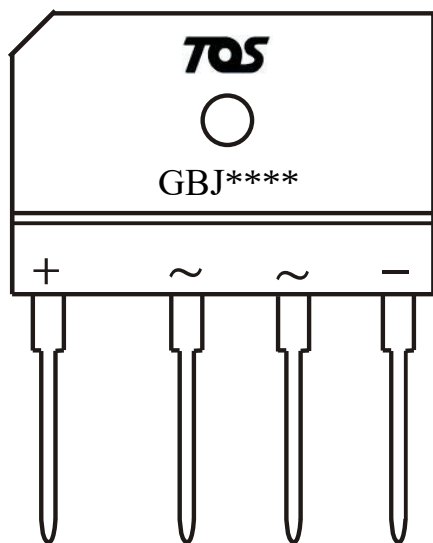


FIG4. Typical Reverse Characteristics

### ■ Marking and packet information

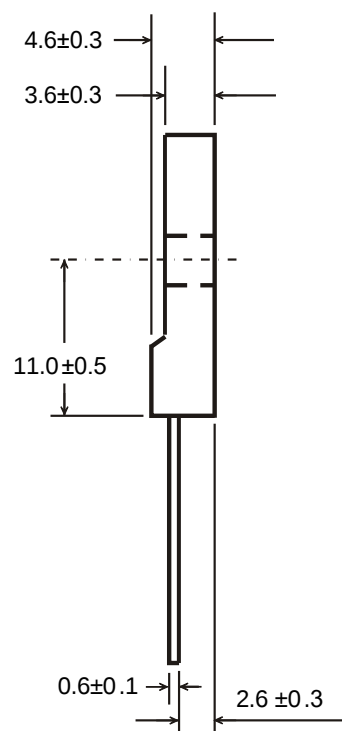
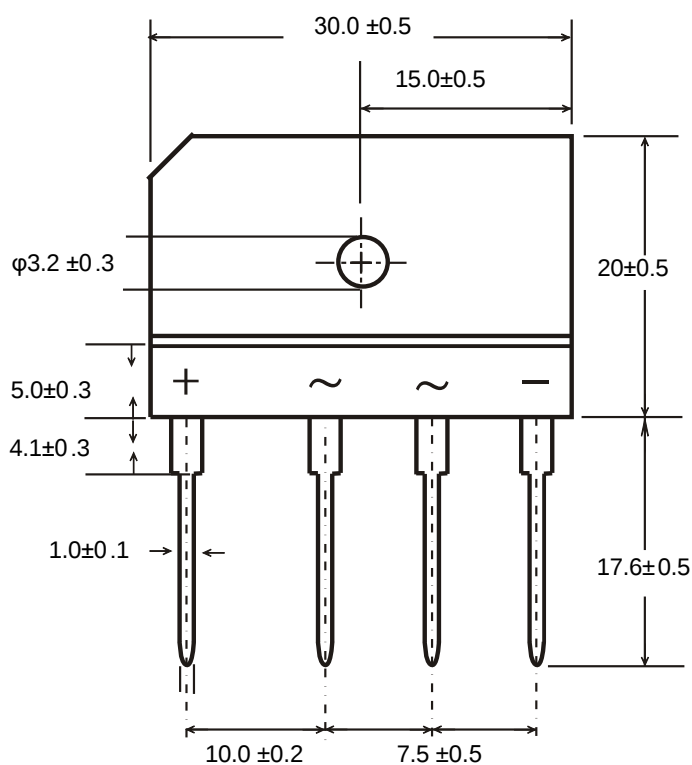


GBJ\*\*\*\* : Marking Model

**TOS** : Brand Logo

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

### ■ 6GBJ Package outline dimensions



Dimensions in millimeters

### ■ Notice

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