# GBU15B Thru GBU15M

## High Current Glass Passivated Molding Single-Phase Bridge Rectifier

### Reverse Voltage 100 to 1000V  Forward Current 15 A

## FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package
- Glass passivated chip junctions
- Superior thermal conductivity
- High IFSM

## 1. Maximum & Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

| Parameter Symbol | Symbol | GBU15B | GBU15D | GBU15G | GBU15J | GBU15K | GBU15M | Unit |
|---|---|---|---|---|---|---|---|---|
| Maximum repetitive voltage | $V_{RRM}$ | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum DC reverse current TA=25 °C | IR | 5 | | | | | | μA |
| at rated DC blocking voltage TA=125℃ | | 500 | | | | | | |
| Maximum average forward rectified output current at Tc=100℃ | Io | 15 | | | | | | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load | IFSM | 250 | | | | | | A |
| Rating of fusing (t<8.3ms) | $I^2t$ | 240 | | | | | | $A^2sec$ |
| Dielectric strength terminals to case， AC 1 minute Current 1mA | Vdia | 2.5 | | | | | | KV |
| Max instantaneous forward voltage at 7.5A | VF | 1.05 | | | | | | V |
| Maximum thermal on P.C.B. without heat-sink | $R_{\theta JA}$ | 21 | | | | | | °C/W |
| resistance per leg on Al plate heat-sink | $R_{\theta JC}$ | 2.2 | | | | | | |
| Operating junction temperature | TJ | -55~150 | | | | | | ℃ |
| Storage temperature | Tstg | -55~150 | | | | | | ℃ |
| Mounting torque | Tor | Rating Torque : 0.8（Suggests 0.45~0.65） | | | | | | N.m |

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## 2. Ratings and Characteristic Curves ( TA = 25°C unless otherwise noted )

Fig. 1 Derating Curve

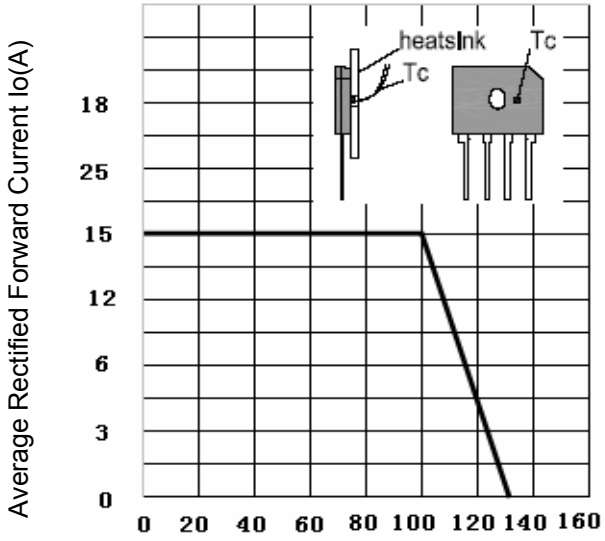



Fig.2 Typical Reverse Characteristics

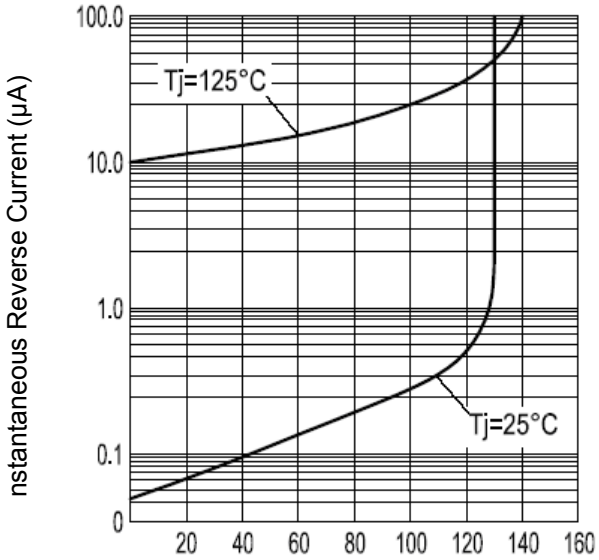



Fig.3 Forward Voltage

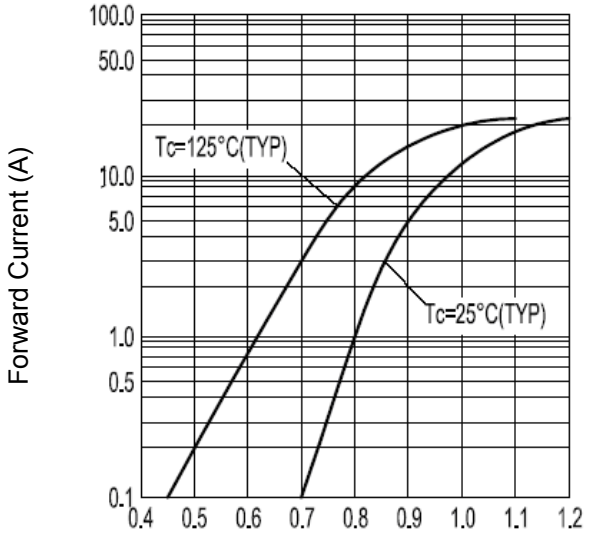
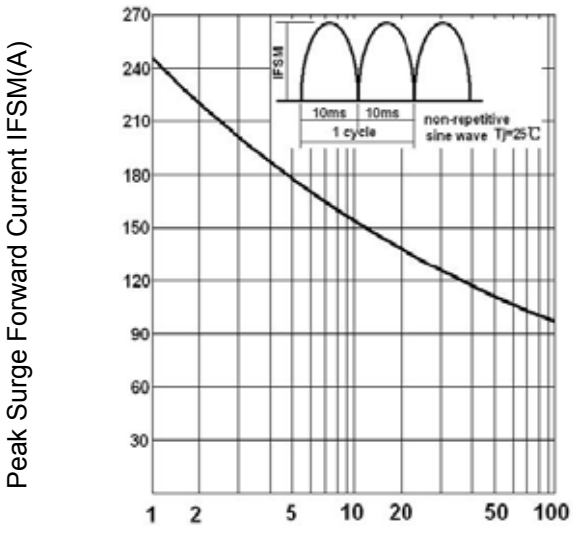



Fig.4 Peak Surge Forward Capability



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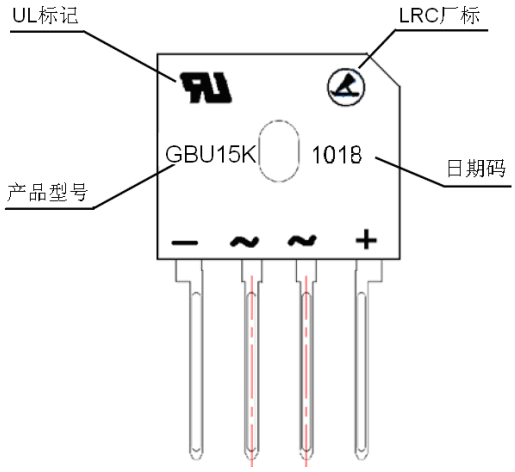
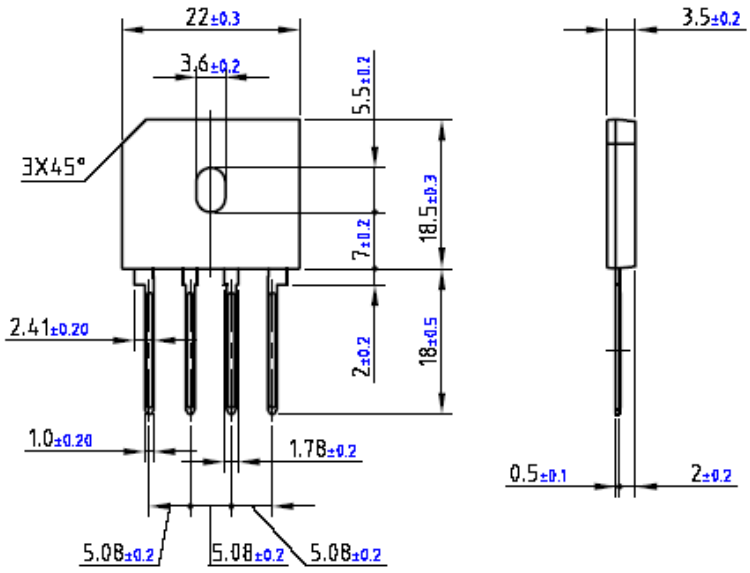
## 3. Marking Identification




**Note：**

生产日期码包含4位数字，例如 “1018”，前两个数字“10” 表示为2010年，另外二个数字“18” 是指第18周，即表示该产品为2010年18周生产。

型号： **GBU** **15** **K**

- K → bridge reverse voltage=800V
- 15 → average rectified forward Current=15A
- GBU → mean：GBU series bridge

## 4. Dimension