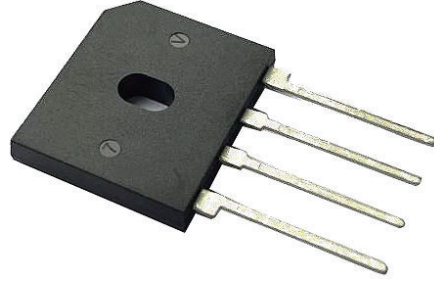


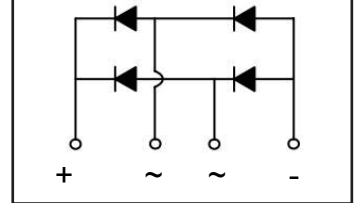
GBU1502 thru GBU1512

Feature

- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension



Circuit



Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

Maximum value

| Symbol | Parameter | Rating | | | | | | Unit |
|--------|-------------------------------------|---------|---------|---------|---------|---------|---------|------|
| | | GBU1502 | GBU1504 | GBU1506 | GBU1508 | GBU1510 | GBU1512 | |
| VRRM | Reverse peak repetitive voltage | 200 | 400 | 600 | 800 | 1000 | 1200 | V |
| VRSM | Reverse peak non-repetitive voltage | 300 | 500 | 700 | 900 | 1100 | 1300 | V |

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

| Symbol | Conditions | Rating | Unit |
|------------------|---|-------------|------------------|
| Id | Average forward output current sine wave ,R-load Tc =100°C | 15 | A |
| IFSM | Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C | 240 | A |
| I ² t | Rating for fusing (t=1~10ms) | 288 | A ² S |
| Viso | A.C.50/60Hz;R.M.S.;1min | 2000 | V |
| Tj,Tstg | Operating Junction and storage temperature range | -40 to +150 | °C |
| Ms | Mounting Torque (Recommended torque:0.65 N·m) | 0.8 | N·m |
| Wt | Approximate Weight | 4 | g |

Electrical characteristics

| Symbol | Conditions | Value | Unit |
|----------|--|-----------|------|
| VFM | Maximum Forward Voltage per leg IFM =7.5A, Tj=25°C | 1.1 | V |
| IRRM | Maximum reverse current at rated blocking voltage per leg Tj=150°C | 0.5 | mA |
| Rth(j-c) | Maximum thermal resistance per (Junction to case) | per diode | 7.2 |
| | | total | 1.8 |

GBU1502 thru GBU1512

Performance Curves

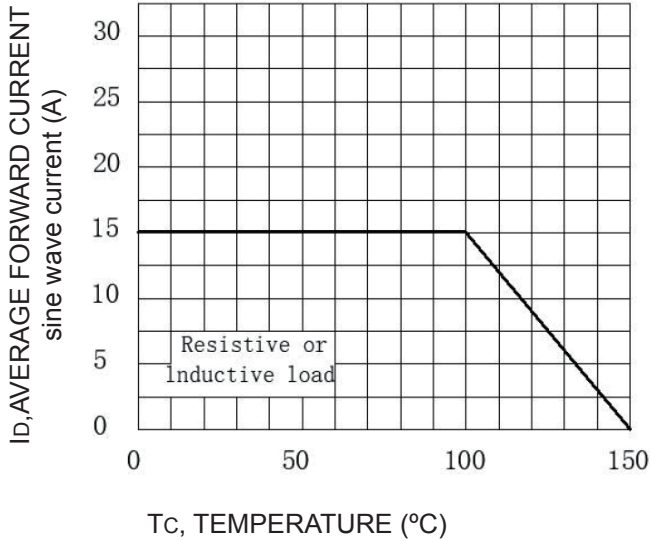


Fig.1 Forward Current Derating Curve

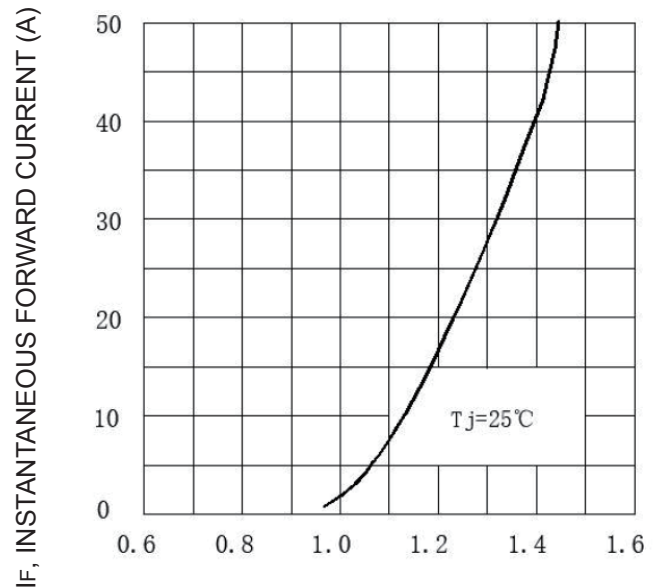


Fig.2 Maximum Forward Characteristics, per element

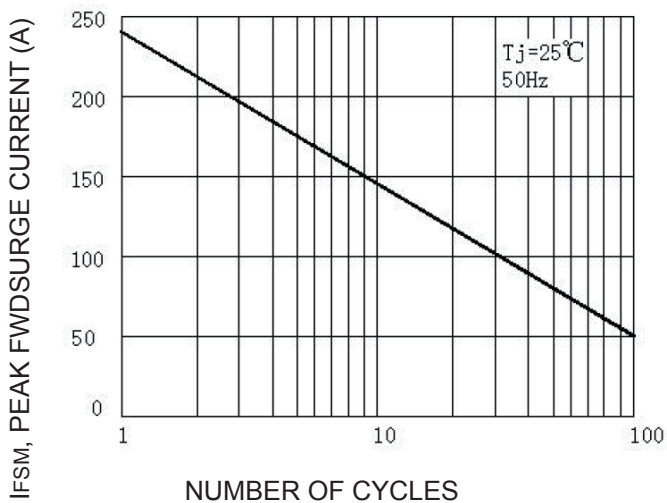


Fig.3 Max Non-Repetitive Surge Current

Outline

