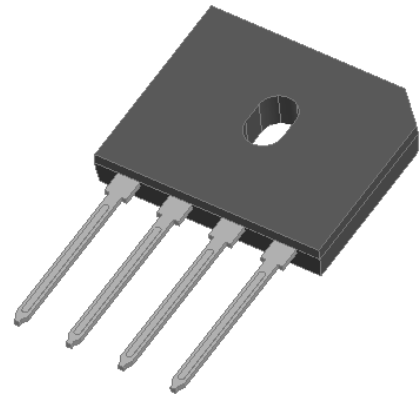




Bridge Rectifiers
Reverse Voltage 600-1000v
Forward current-10A

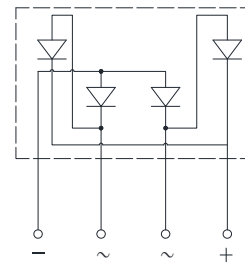
Features

- Glass passivated chip
- High surge current capability
- Ideal for surface mounted applications
- Low power loss, high efficiency
- Plastic Case Material has UL Flammability



Mechanical Data

- Package: GBU
- Terminals: Tin Plated leads, solderable per Mil-STD-750 Method 2026
- Polarity: As marked
- Molding compound meets UL 94 V-0 flammability rating, ROHS-compliant



Maximum Ratings (Ta=25°C Unless otherwise specified)

| Type Number | SYMBOL | GBU1010 | Unit |
|--|-------------|-----------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 1000 | V |
| Maximum Average Forward Rectified Current at TL = 100 °C | $I_{O(AV)}$ | 10.0 | A |
| Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load (JEDEC Method) on rated | IFSM | 180.0 | A |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C | | 360.0 | |
| Current squared time @1ms ≤ t ≤ 8.3ms Tj=25°C, Rating of per diode | I^2t | 134.5 | A ² S |
| Maximum Forward Voltage at 10.0A DC | V_{FM} | 1.1 | V |
| Maximum Reverse Current TA = 25°C | IR | 5 | uA |
| at Rated DC Blocking Voltage TA = 100°C | | 100 | |
| Typical Thermal Resistance | R_{QJa} | 75.0 | °C/W |
| Operating Junction Temperature Range | T_J | -55to+150 | °C |
| Storage Temperature Range | T_{STG} | -55to+150 | °C |



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

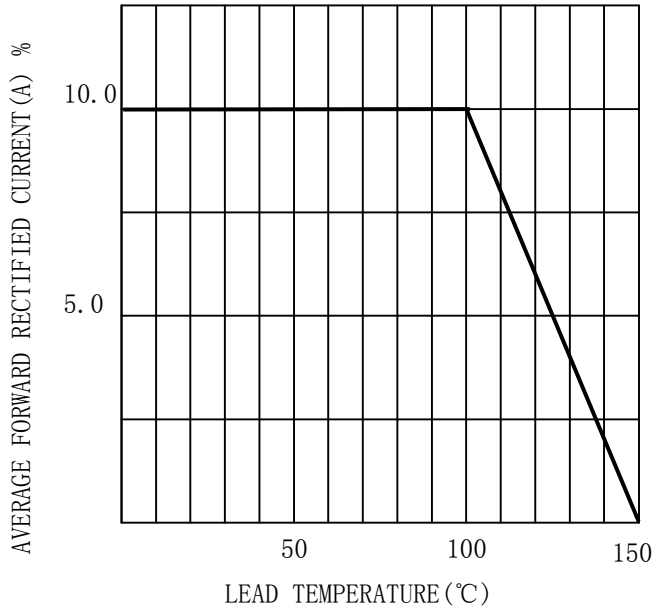


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

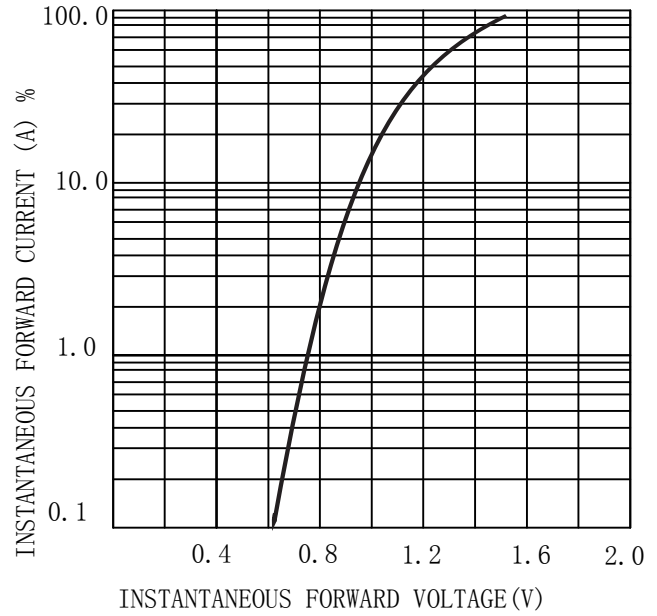


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

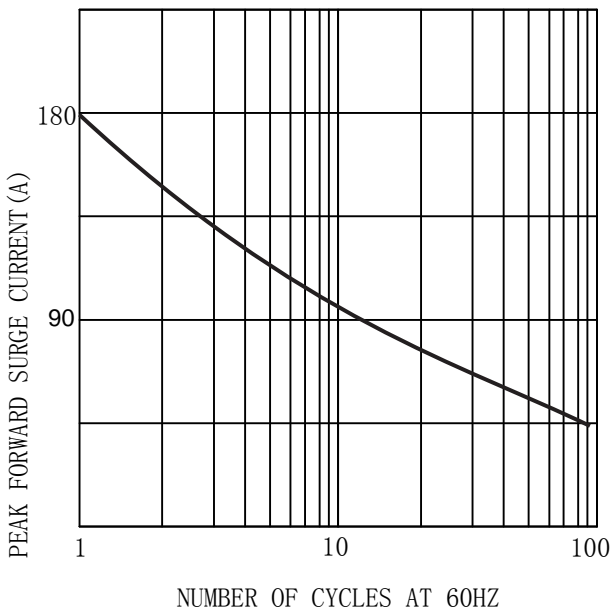
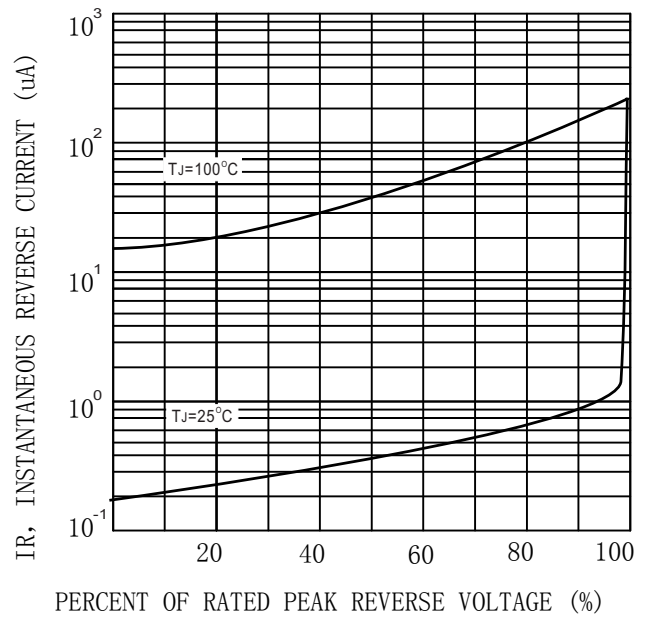
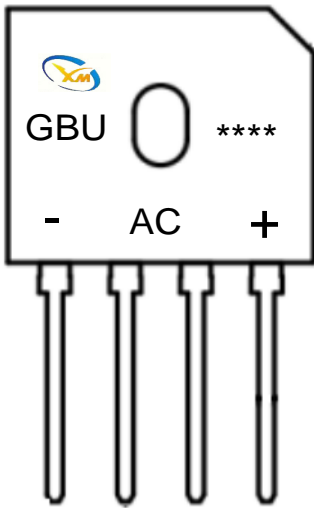



FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



 = Logo

GBU**** = Date Code Marking

Print according to customer request

PACKING REQUIRMENTS

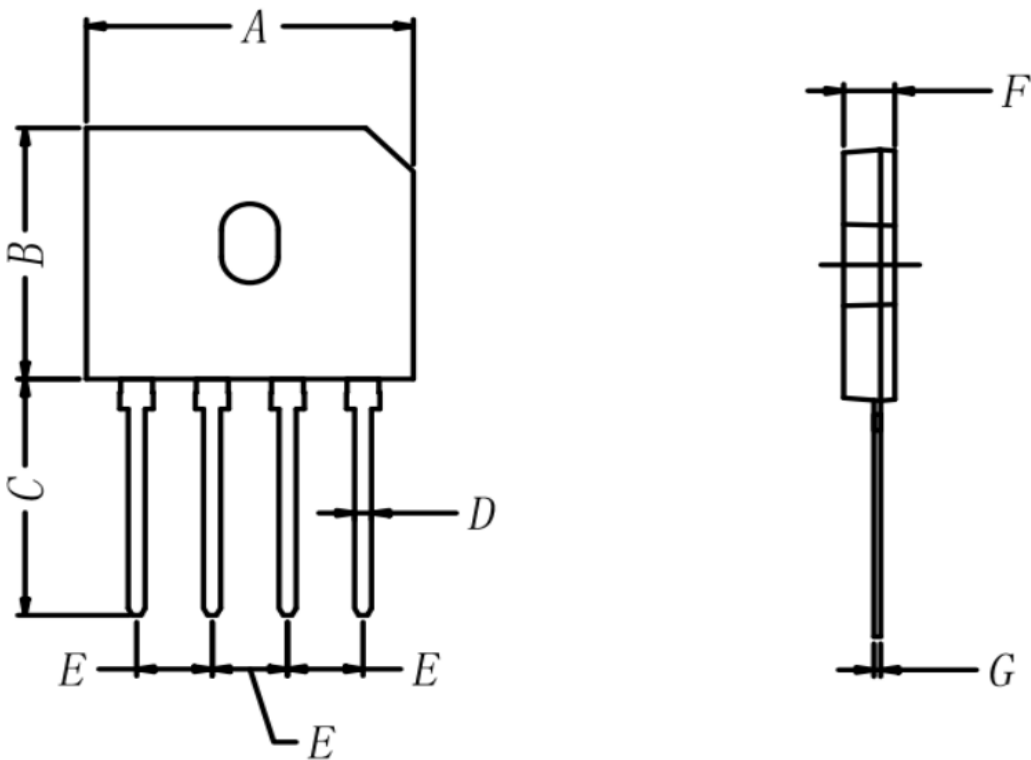
- Ps The carton packaging

| DEVICE TYPE | Q'TY/REE L (pcs) | BOX/CAR TOON | Q'TY/REE L (pcs) |
|----------------|---------------------|-----------------|---------------------|
| GBU | 500 | 10 | 5000 |



Outline Dimensions

GBU



| GBU | | | | |
|-----|---------|------|------|------|
| DIM | INC HES | | MM | |
| | MIN | MAX | MIN | MAX |
| A | 0.86 | 0.87 | 21.8 | 22.2 |
| B | 0.72 | 0.74 | 18.3 | 18.7 |
| C | 0.70 | 0.72 | 17.8 | 18.2 |
| D | 0.04 | 0.05 | 1.05 | 1.25 |
| E | 0.19 | 0.21 | 4.85 | 5.35 |
| F | 0.13 | 0.14 | 3.3 | 3.6 |
| G | 0.02 | 0.02 | 0.4 | 0.5 |



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