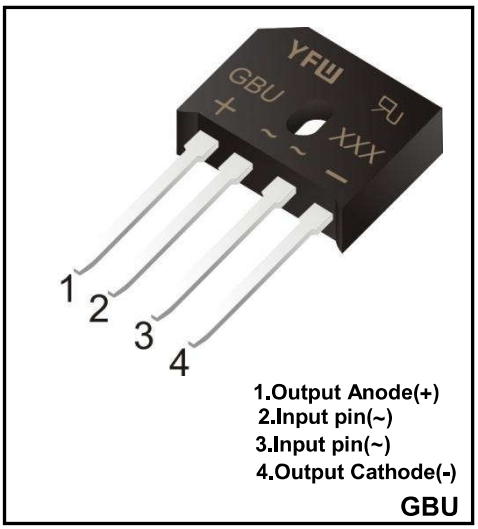
# SUPER FAST BRIDGE RECTIFIER




## FEATURES

- Surge overload rating-250 amperes peak
- Polarity:As marked on body
- Ideal for printed circuit board
- Plastic material has U/LThe flammability classification 94V-0

## MECHANICAL DATA

- Case:GBU
- Terminals: Solderable per MIL-STD-202, Method208
- Approx. Weight: 3.9g /0.138oz

## Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter | | Symbols | GBU104SF | Units |
|---|---|---|---|---|
| Maximum Repetitive Peak Reverse Voltage | | $V_{RRM}$ | 200 | V |
| Maximum RMS voltage | | $V_{RMS}$ | 140 | V |
| Maximum DC Blocking Voltage | | $V_{DC}$ | 200 | V |
| Maximum Average Forward $T_C$=100℃ (Note 1) Rectified Current at | | $I_{(AV)}$ | 10.0 | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method) | | $I_{FSM}$ | 250 | A |
| Forward Voltage per element @$I_F$ =10A DC | | $V_F$ | 0.95 | V |
| Maximum Reverse Recovery Time | | Trr | 35 | nS |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | @Ta=25°C | $I_R$ | 5 | μA |
| | @Ta=125°C | | 500 | |
| I2t Rating for Fusing(3ms≤t≤8.3ms) | | $I^2t$ | 300 | $A^2S$ |
| Typical Junction Capacitance (Note1) | | $C_j$ | 50 | pF |
| Operating and Storage Temperature Range | | Tj, Tstg | -55 ~ +175 | °C |

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Device mounted on 150mm*150mm*16mm cu plate heatsink

## Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

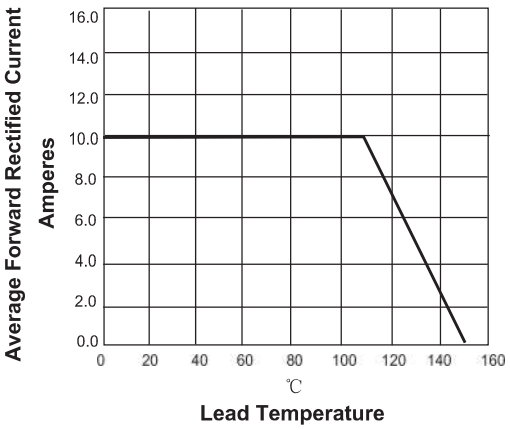



FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

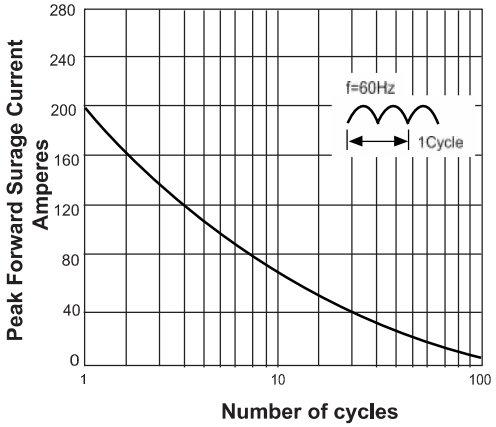



FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

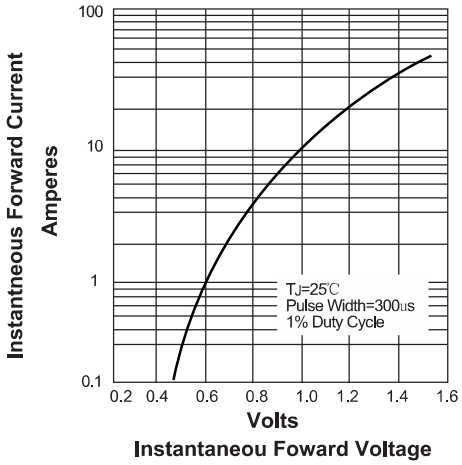
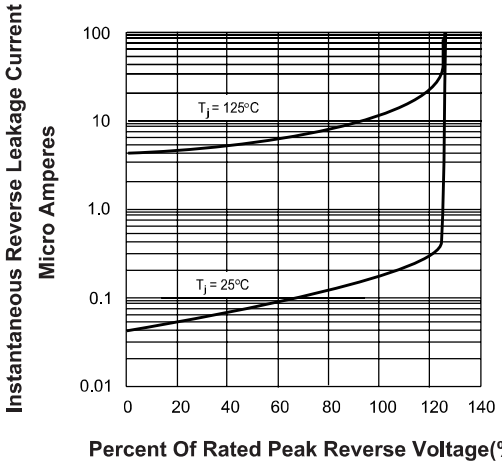
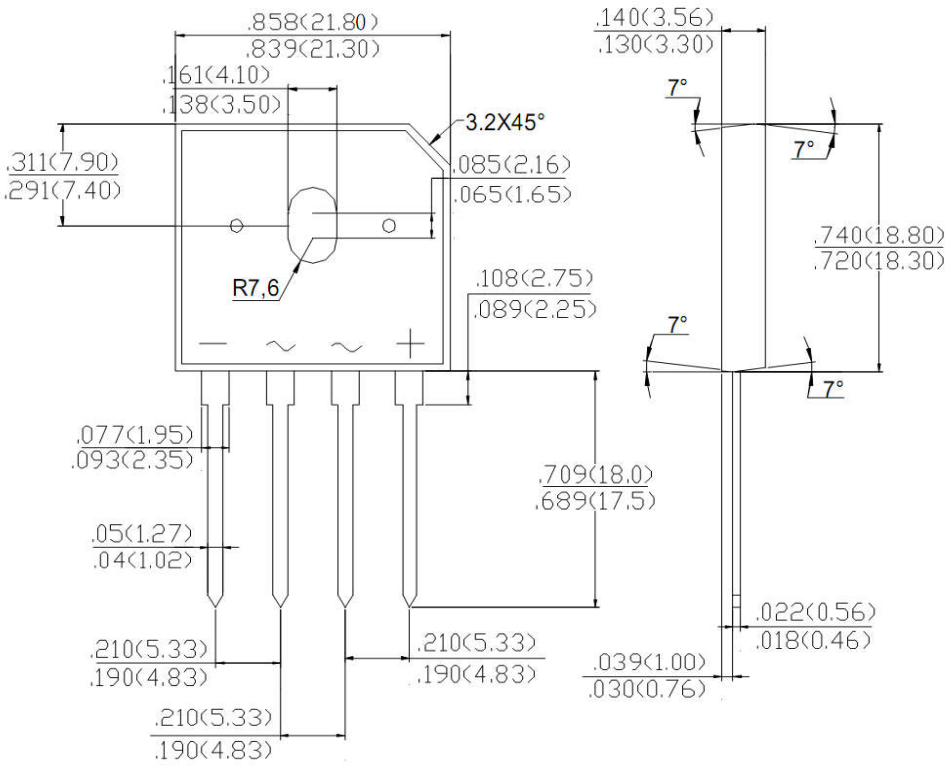



FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



## Package Outline GBU




## Summary of Packing Options

| Package | Packing Description | Packing Quantity | Industry Standard |
|---|---|---|---|
| GBU | BOX | 350 | EIA-481-1 |