

6.0A FAST RECOVERY RECTIFIER BRIDGE
RECTIFIER Reverse Voltage – 600 to 1000 V
Forward Current – 6.0A

FEATURES

- ◆Ultrason soft recovery
- ◆LOW I_{RRM}, LOW V_F, LOW V_{RRM}
- ◆Glass Passivated Chip Junction
- ◆Special frame design for heat dissipation
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

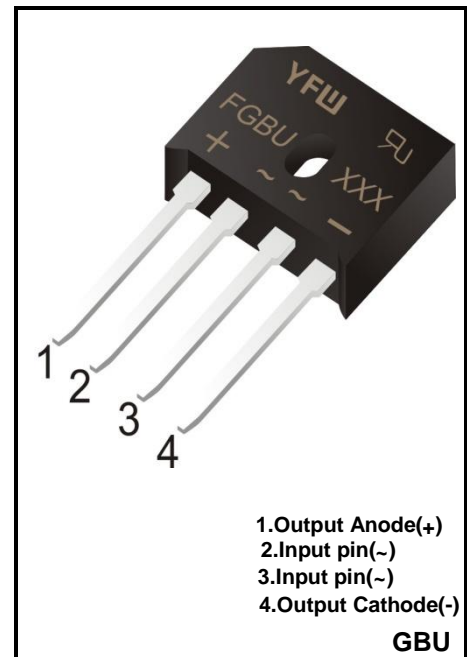


BENEFITS

- ◆Reduced EMI
- ◆Reduced Power loss and switching transistor
- ◆Reduced snubbing

MECHANICAL DATA

- ◆Case: GBU
- ◆Terminals: Solderable per MIL-STD-750, Method 2026
- ◆Approx. Weight: 3.9g /0.138oz



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

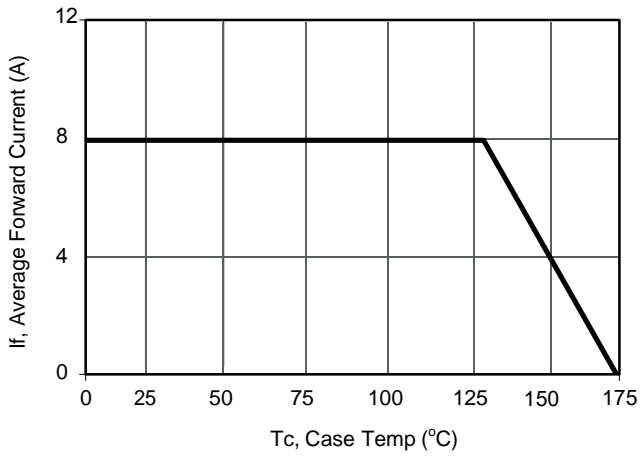
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter | Symbols | FGBU606 | FGBU608 | FGBU610 | Units |
|--|-----------------------------------|------------|---------|---------|------------------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V _{RMS} | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 600 | 800 | 1000 | V |
| Average Rectified Output Current | I _o | 6.0 | | | A |
| Reverse Recovery Time.IF=0.5A,IR=1A,IRR=0.25A | T _{rr} | 500 | | | nS |
| Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method) | I _{FSM} | 175 | | | A |
| I ² t Rating for Fusing(1ms≤t≤10ms) | I ² t | 127 | | | A ² S |
| Maximum Forward Voltage at 4.0 A | V _F | 1.0 | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 5 100 | | | uA |
| Typical Junction Capacitance (Note1) | C _j | 50 | | | pF |
| Operating and Storage Temperature Range | T _j , T _{stg} | -55 ~ +175 | | | °C |

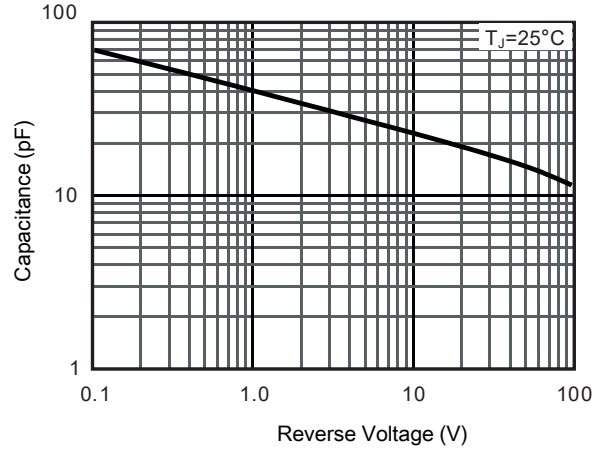
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

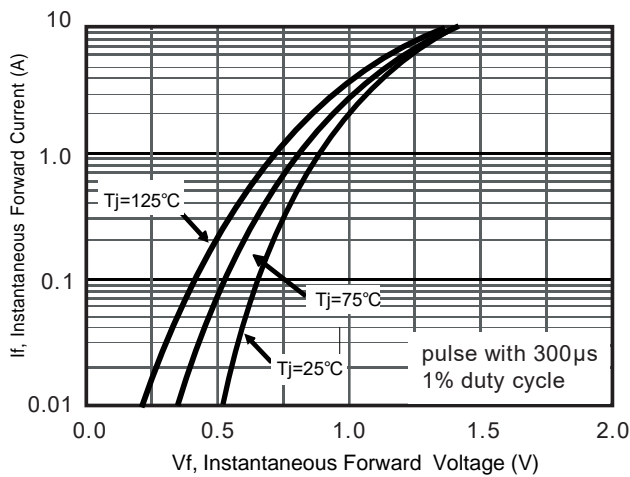
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



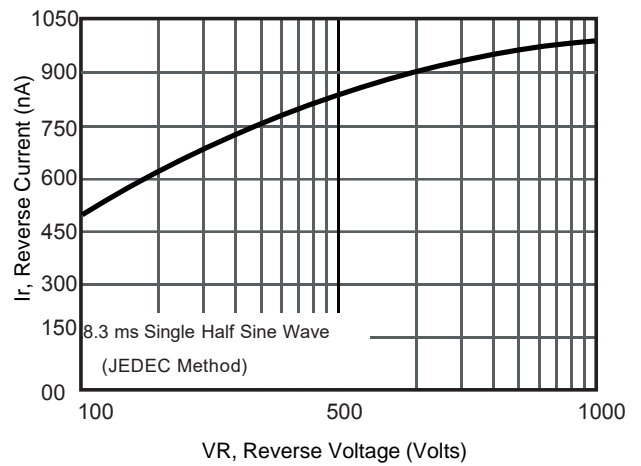
Current Derating, Case



Typical Junction Capacitance



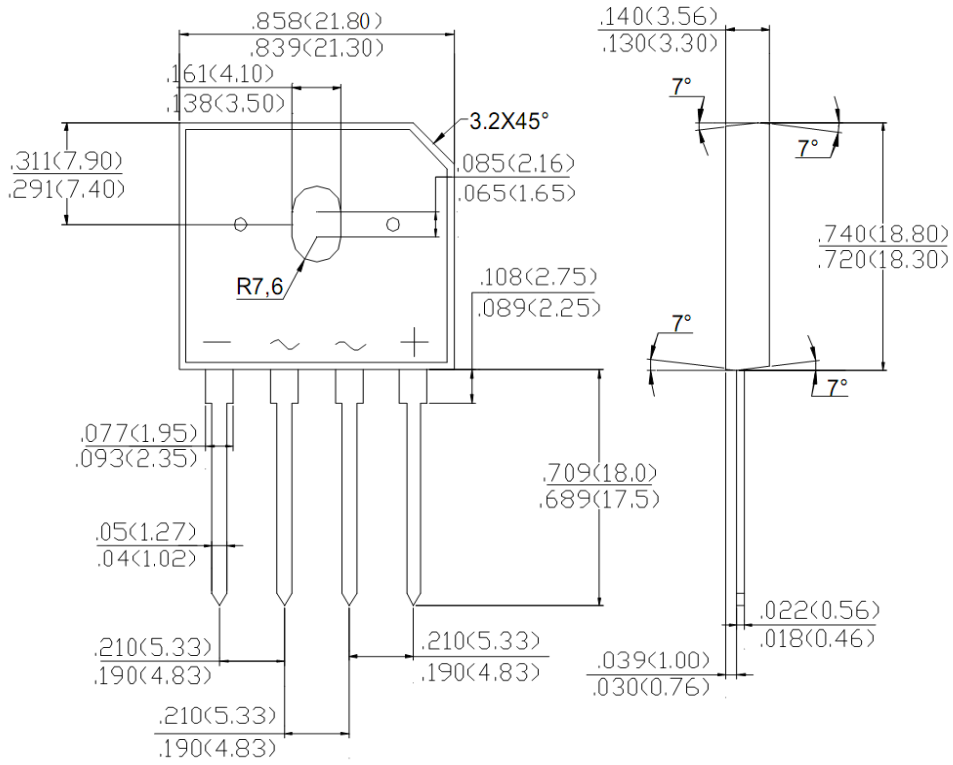
Typical Forward Voltage



Typical Reverse Current

Package Outline

GBU



Summary of Packing Options

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

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