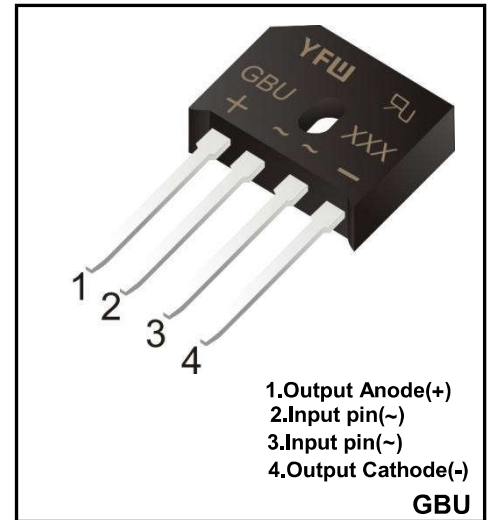


SUPER FAST BRIDGE RECTIFIER
FEATURES

- ◆ 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 | GBU106SF | Units |
|---|----------------------|------------|------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 400 | V |
| Maximum RMS voltage | V_{RMS} | 280 | V |
| Maximum DC Blocking Voltage | V_{DC} | 400 | V |
| Maximum Average Forward $T_c=100^{\circ}C$ (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 | 1.25 | V |
| Maximum Reverse Recovery Time | T_{rr} | 35 | nS |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | @ $T_a=25^{\circ}C$ | 5 | μA |
| | @ $T_a=125^{\circ}C$ | 500 | |
| I ² t Rating for Fusing(3ms≤t≤8.3ms) | I^2t | 300 | A ² S |
| Typical Junction Capacitance (Note1) | C_j | 50 | pF |
| Operating and Storage Temperature Range | T_j, T_{stg} | -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

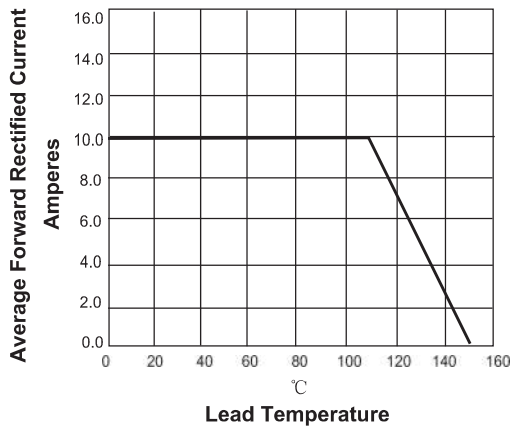


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

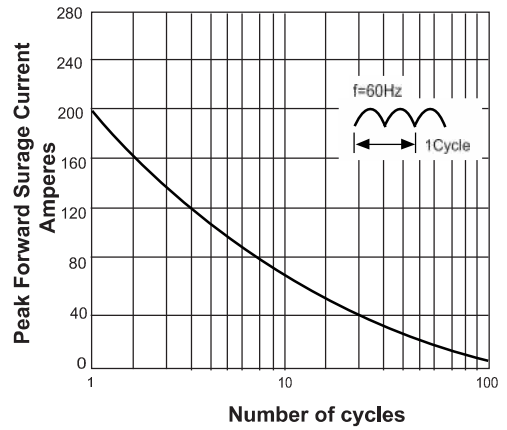


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

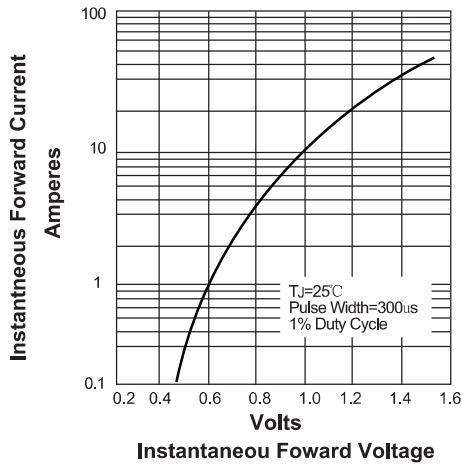


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

