SUPER FAST BRIDGE RECTIFIER

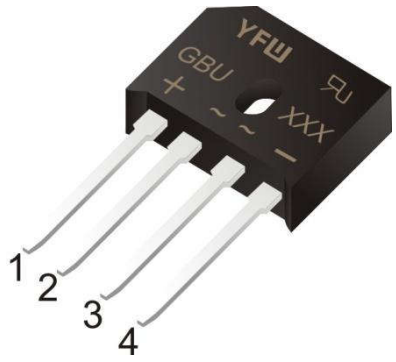
lead-free ROHS

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



1.Output Anode(+)
2.Input pin(~)
3.Input pin(~)
4.Output Cathode(-)
GBU

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	GBU106SF	GBU108SF	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	200	400	600	V
Maximum RMS voltage		V_{RMS}	140	280	420	V
Maximum DC Blocking Voltage		V_{DC}	200	400	600	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	1.25	1.65	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 ~ +1 5			°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

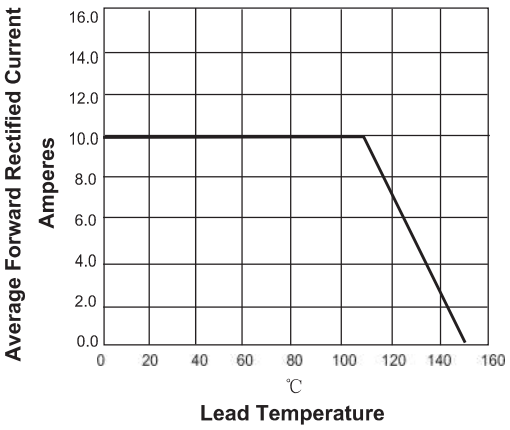


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

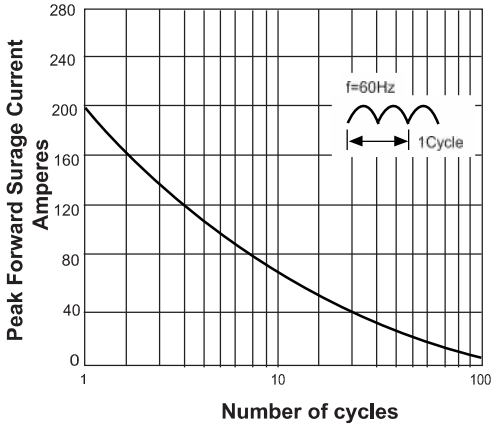


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

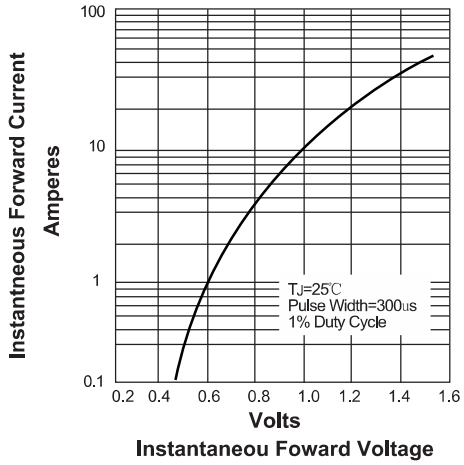
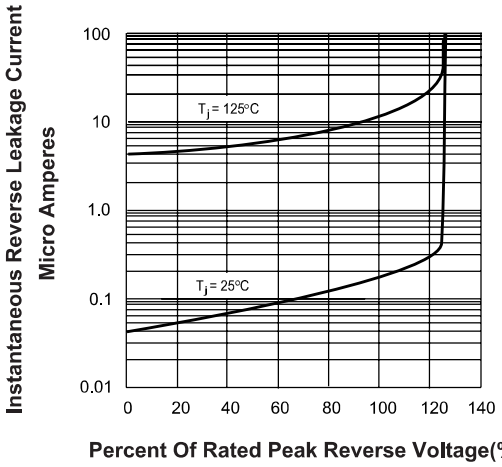
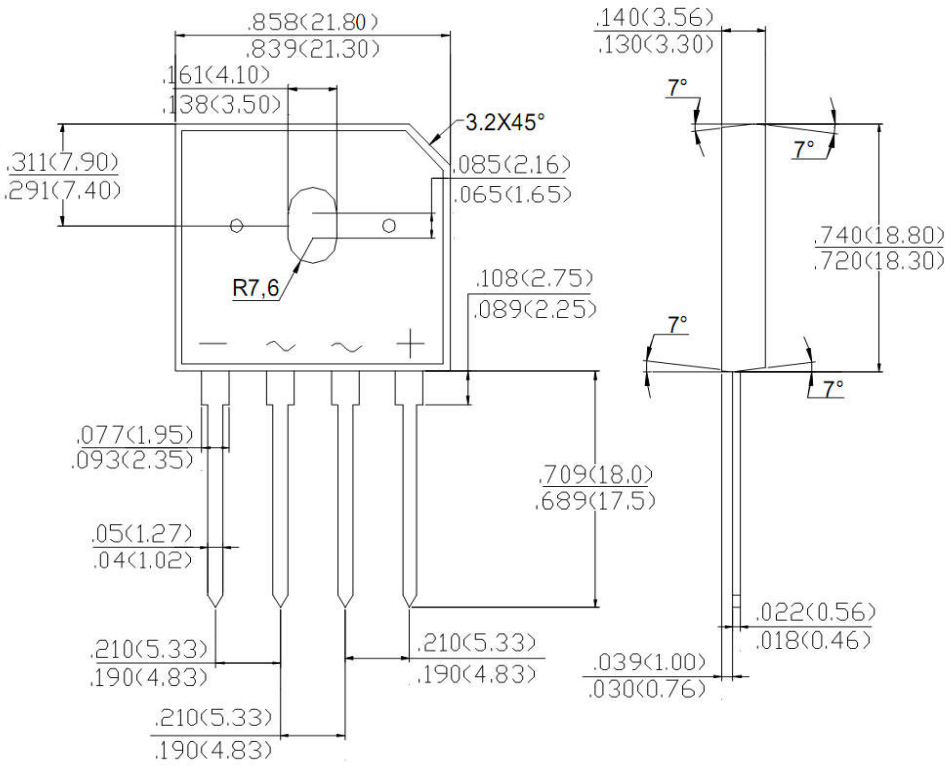


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Package Outline GBU



Summary of Packing Options

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