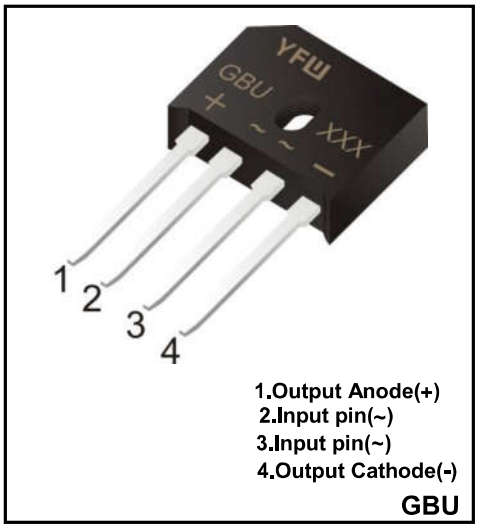
SUPER FAST BRIDGE RECTIFIER



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

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℃(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		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

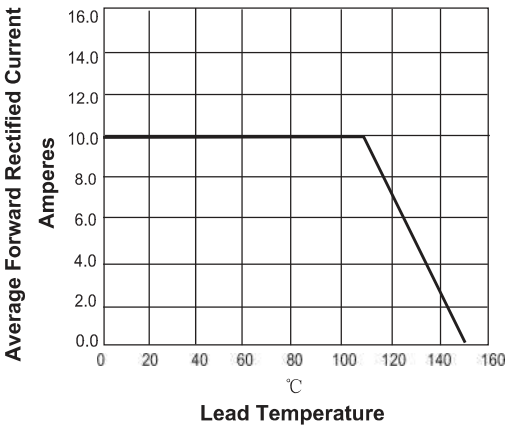


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

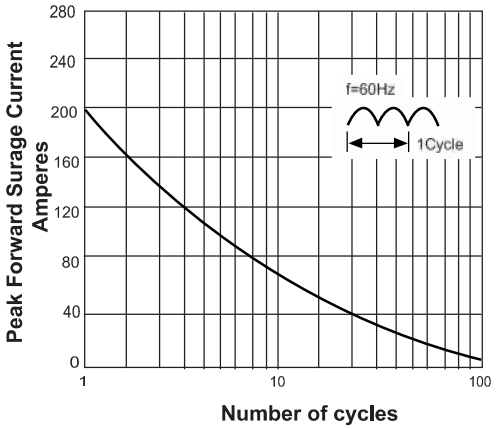


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

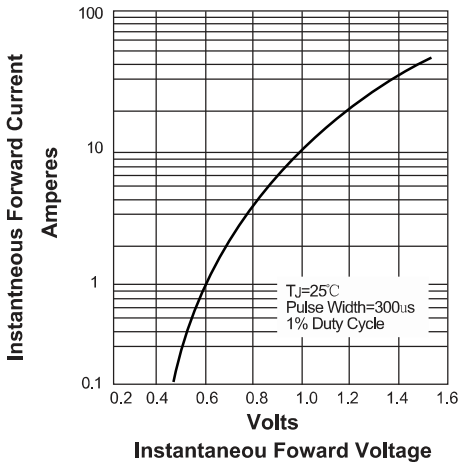
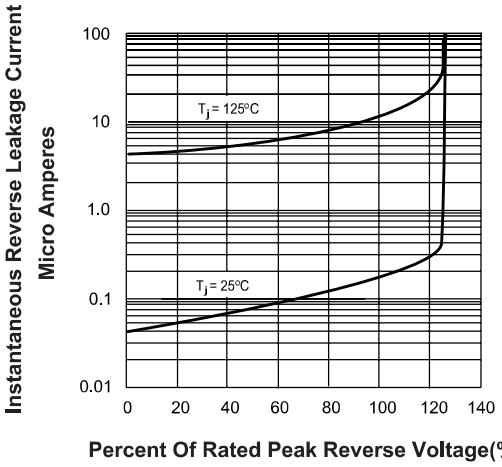
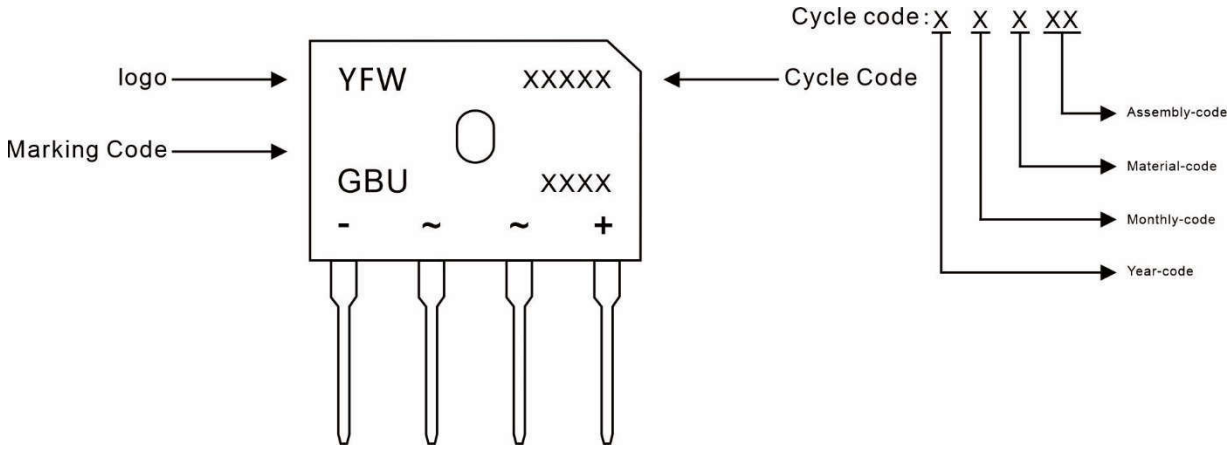


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram

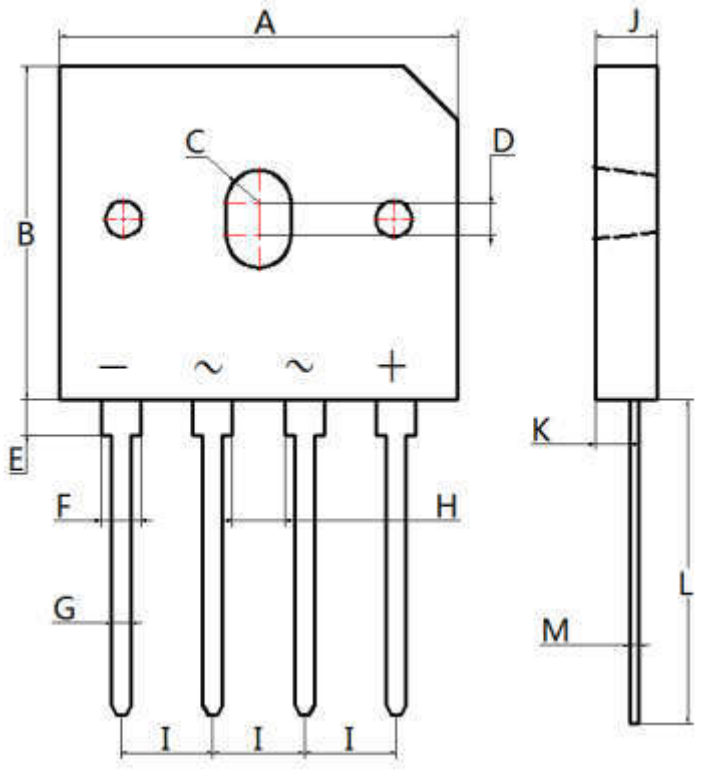


Ordering information

Package	Packing Description	Packing Quantity
GBU	bulk	500PCS/Box 5000PCS/Carton

Package Dimensions

GBU



Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	21.70	22.30	0.86	0.88
B	18.20	18.80	0.72	0.74
C	1.60	2.00	0.06	0.08
D	1.60	2.00	0.06	0.08
E	1.80	2.20	0.07	0.09
F	2.00	2.40	0.08	0.09
G	0.90	1.30	0.04	0.05
H	3.00	/	0.12	/
I	4.88	5.28	0.19	0.21
J	3.20	3.60	0.13	0.14
K	1.70	2.10	0.07	0.08
L	17.50	18.50	0.69	0.73
M	0.40	0.60	0.02	0.02

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