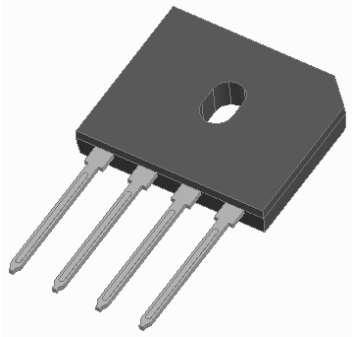
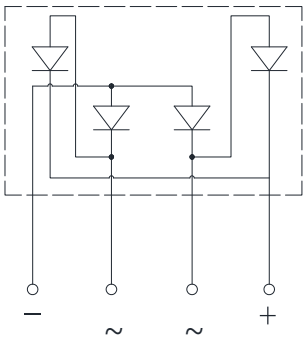
Low VF Bridge Rectifiers





Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Low VF
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

- **Package**: GBU
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■Maximum Ratings (Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UO	ö	ɬ	À	VRRM	U-0 V	ˢ

Maximum RMS Voltage		**VRMS**	**V**	**420**	**480**
Maximum DC blocking Voltage		**VDC**	**V**	**600**	**800**
Average rectified output current @60H z sine wave , R-load	**With heatsink Tc = 113**	IO	A	10	
	Without heatsink Ta =25			3.6	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		IFSM	A	200	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				400	
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I²t	A²S	166	
Storage temperature		Tstg		-55 ~ +150	
Junction temperature		Tj		-55 ~ +150	
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5	
Mounting torque @Recommend torque 5kg cm		Tor	kg cm	8	

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBUL1006	GBUL1008
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=5.0A	0.92	
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25	5	
			T_j=125	100	
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	110	

■Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GBUL1006	GBUL1008
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	25	
	Between junction and case, With heatsink	$R_{\theta J-C}$		2	

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBUL1006 THRU GBUL1008	B1	Approximate 3.97	20	1000	2000	TUBE
GBUL1006 THRU GBUL1008	A1	Approximate 3.97	250	250	4000	BOX

■ Characteristics (Typical)

FIG1:Io-Tc Curve

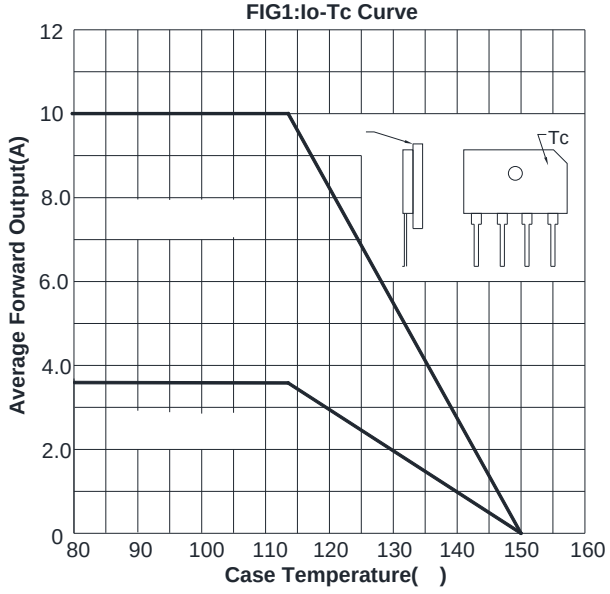


FIG2:Surge Forward Current Capability

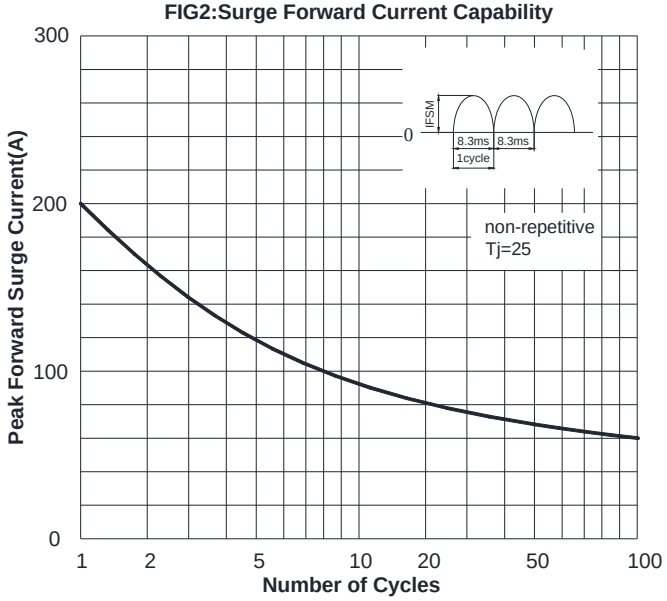


FIG3: Typical Forward Voltage

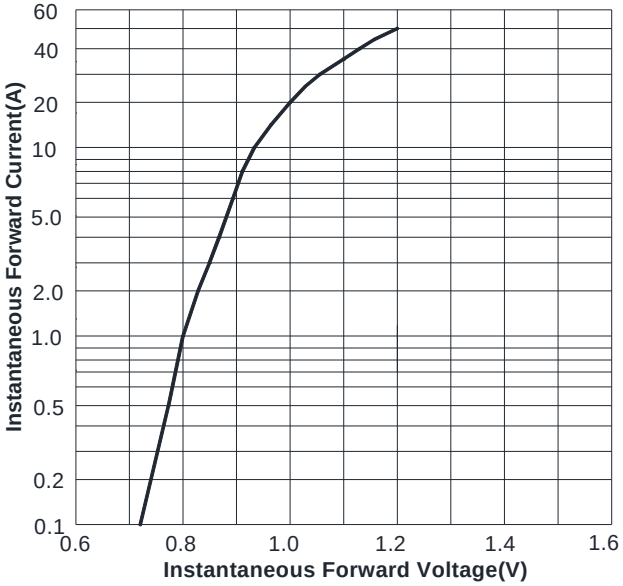
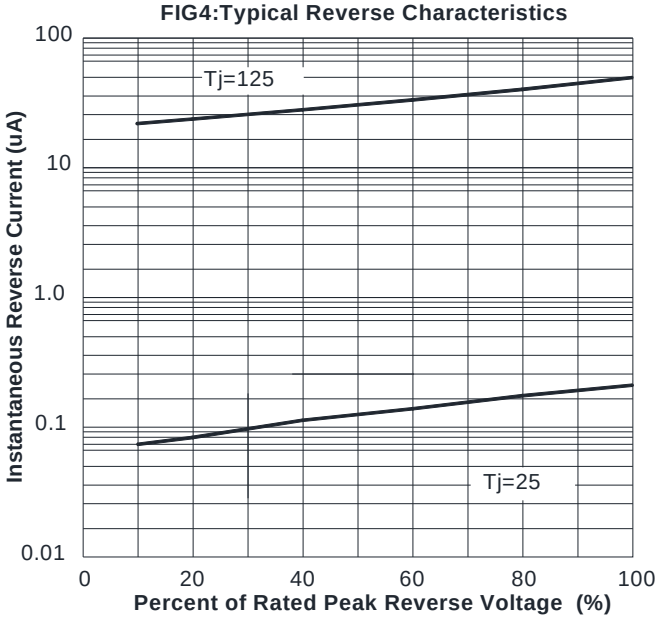


FIG4:Typical Reverse Characteristics



■ Outline Dimensions

GBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.30	3.90
E	7.10	7.50
F	5.50	5.90
G	1.91	2.54
H	2.06	2.54
I	1.02	1.27
J	4.83	5.33
K	3.30	3.56
L	2.40	2.66
M	0.46	0.56

Dimensions in millimeters

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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