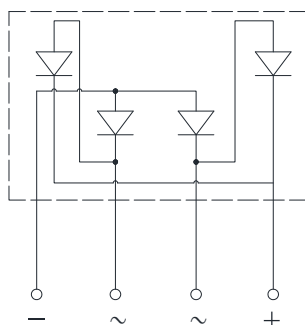
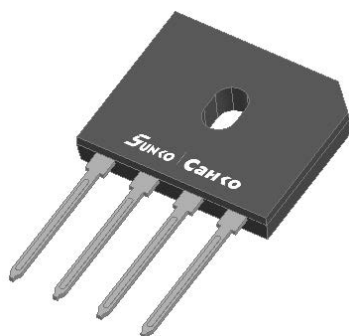


Low VF Bridge Rectifiers



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, -
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBUL1006	GBUL1008
Device marking code				GBUL1006	GBUL1008
Maximum Repetitive Peak Reverse Voltage		VRRM	V	600	800
Maximum RMS Voltage		VRMS	V	420	480
Maximum DC blocking Voltage		VDC	V	600	800
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =113°C	IO	A	10	
	Without heatsink Ta =25°C			3.6	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C		IFSM	A	200	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				400	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		I²t	A²S	166	
Storage temperature		Tstg	°C	-55 ~ +150	
Junction temperature		Tj	°C	-55 ~ +150	
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5	
Mounting torque @Recommend torque: 5kg·cm		Tor	kg·cm	8	

GBUL1006 THRU GBUL1008

■Electrical Characteristics (T_a=25°C 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°C	5	
			T _j =125°C	100	
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	110	

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBUL1006	GBUL1008
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	25	
	Between junction and case, With heatsink	R _{θJ-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)

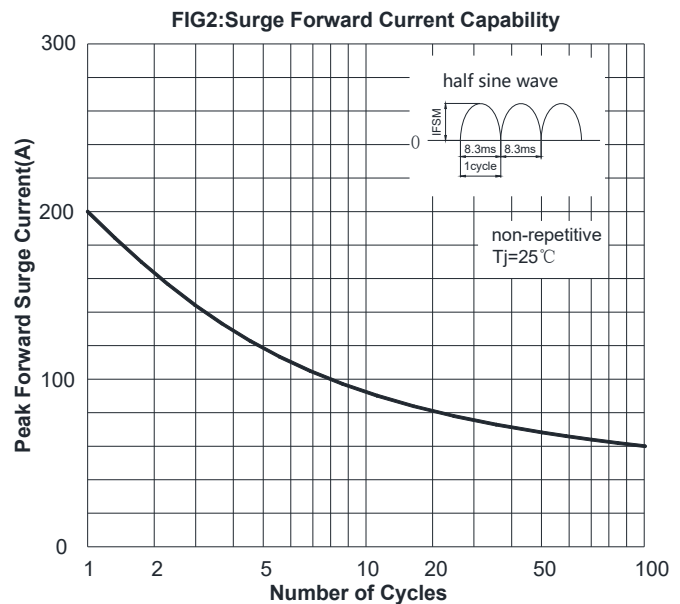
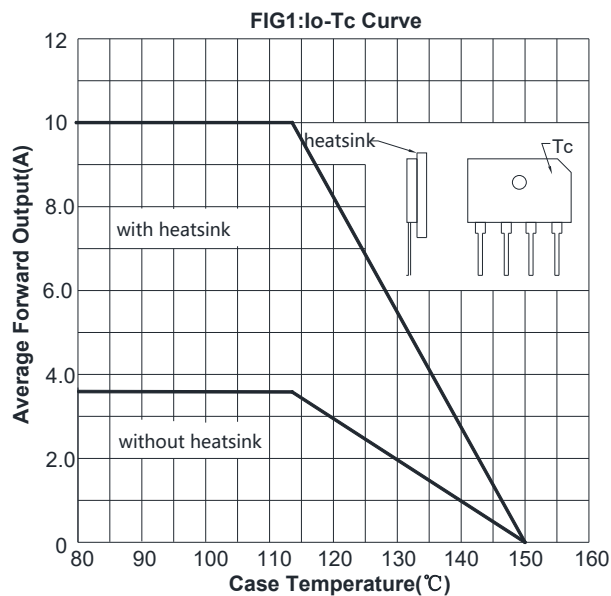


FIG3: Typical Forward Voltage

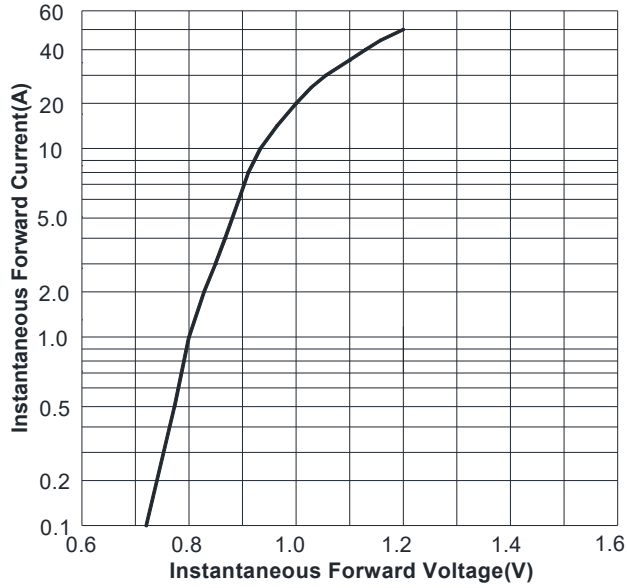
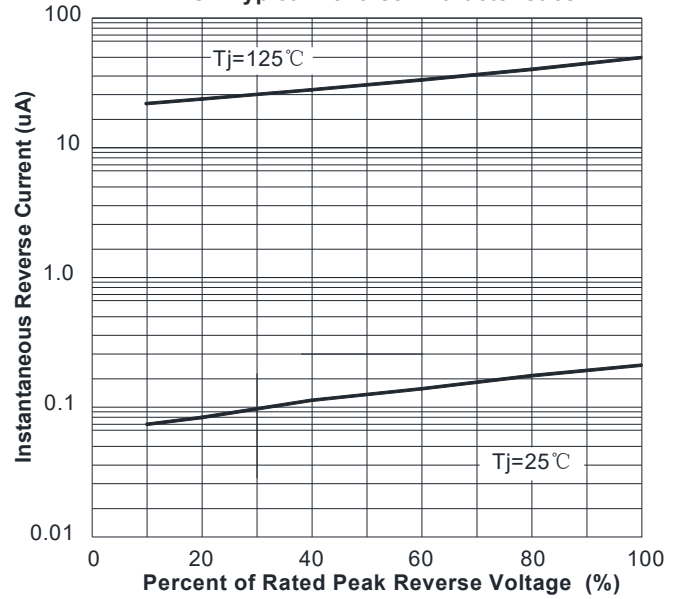
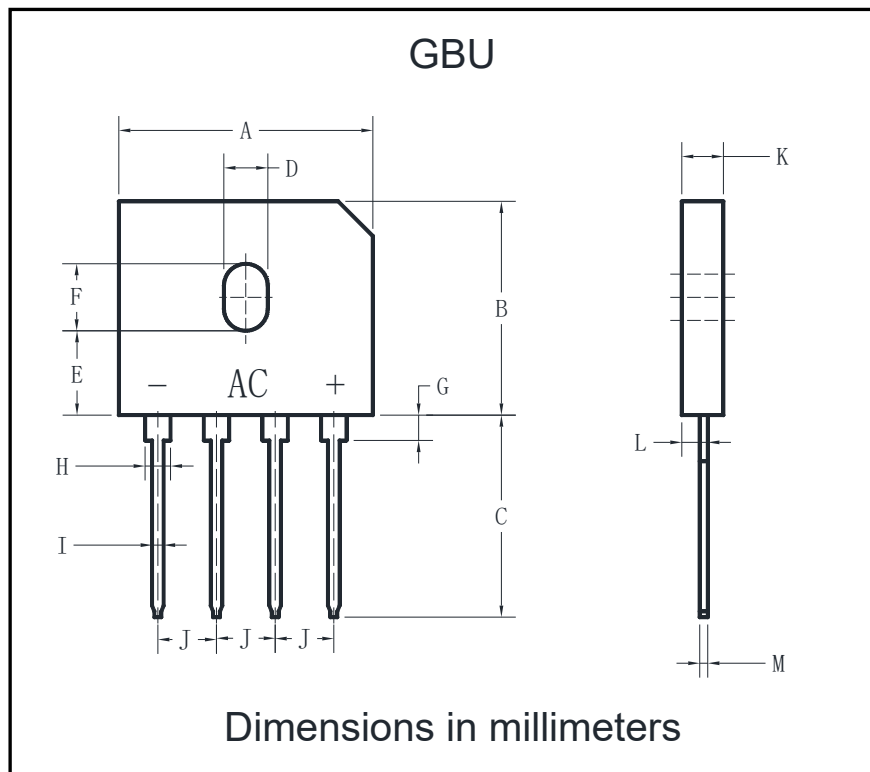


FIG4: Typical Reverse Characteristics



■ 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

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