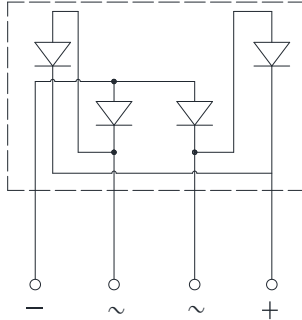
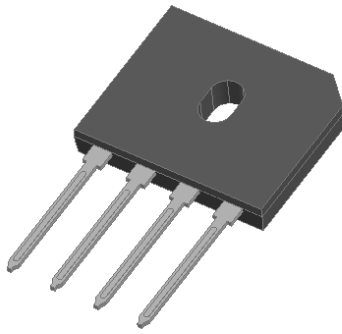


Bridge Rectifier



Features

- UL recognition, file #E230084
- 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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBUL1006	GBUL1008
Device marking code			GBUL1006	GBUL1008
Repetitive peak reverse voltage	VRRM	V	600	800
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =100°C	IO	A	10
	Without heatsink Ta =25°C			3.6
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C	IFSM	A	200	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I ² t	A ² S	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	

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBUL1006	GBUL1008
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=5A	0.92	
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	10	



GBUL1006 THRU GBUL1008

■ Thermal Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBUL1006	GBUL1008
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	$^{\circ}\text{C}/\text{W}$	25	
	Between junction and case, With heatsink	$R_{\theta J-C}$		2.3	

■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM 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: I_o - T_c Curve

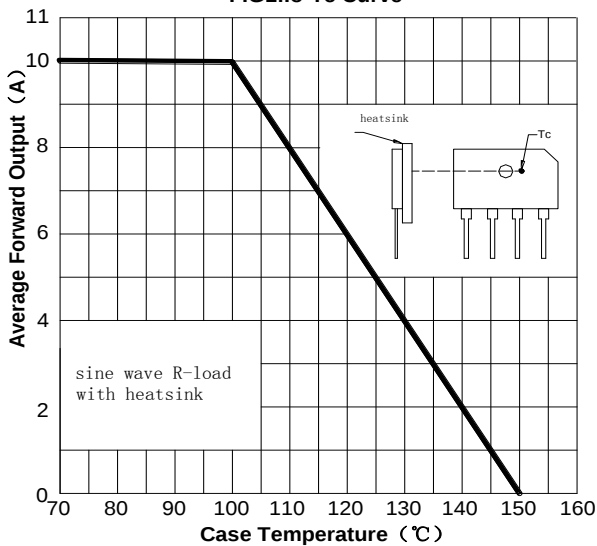


FIG2: Surge Forward Current Capability

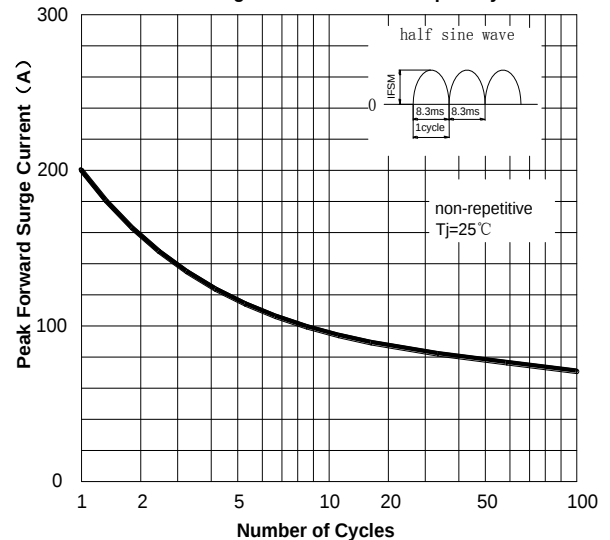


FIG3: Forward Voltage

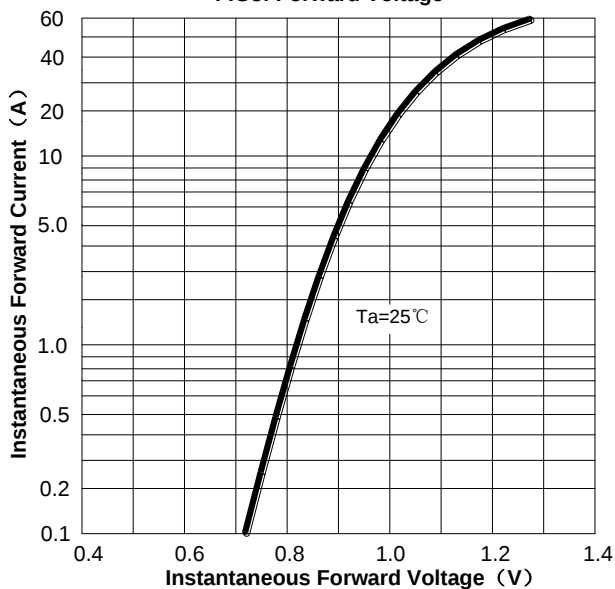
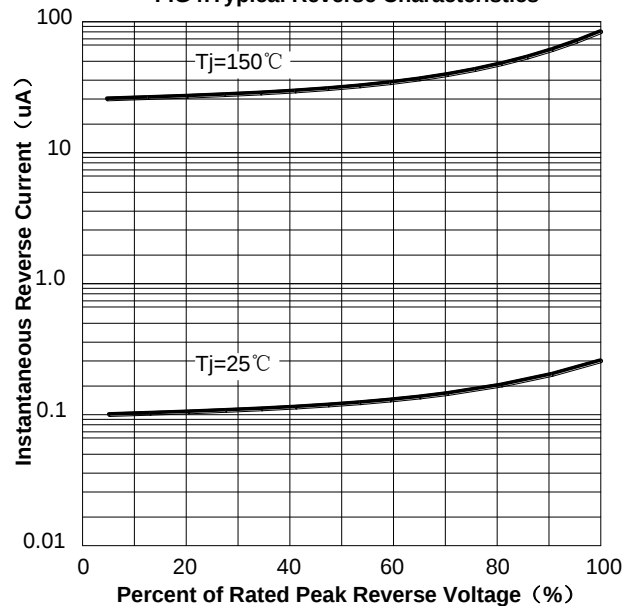


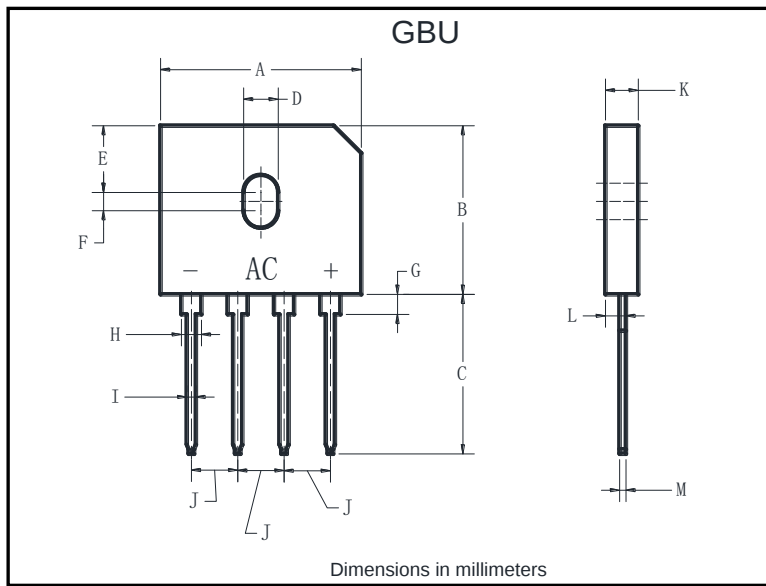
FIG4: Typical Reverse Characteristics





GBUL1006 THRU GBUL1008

■ Outline Dimensions



GBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.50	4.10
E	7.40	7.90
F	1.65	2.16
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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