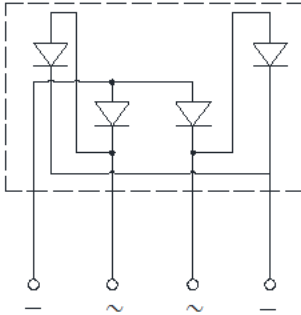
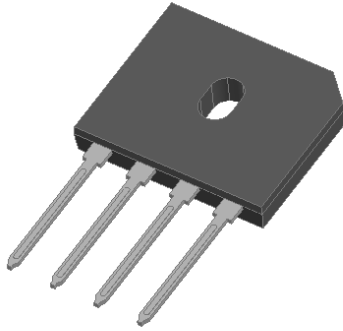


Bridge Rectifier



Features

- UL recognition, file #E230084
- Ideal for printed circuit boards
- High surge current capability
- 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 (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Device marking code				GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Repetitive peak reverse voltage		V _{RRM}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz half sine wave, R-load	With heatsink T _C =80℃	I _O	A	10						
	Without heatsink T _A =25℃			3.6						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T _j =25℃		I _{FSM}	A	150						
Current squared time @ 1ms≤t≤8.3ms T _j =25℃, Rating of per diode		I ² t	A ² s	93						
Storage temperature		T _{stg}	℃	-55 ~+150						
Junction temperature		T _j	℃	-55 ~+150						
Dielectric strength @ terminals to case, AC 1 minute		V _{dis}	KV	2						
Mounting torque @recommend torque: 5kg • cm		Tor	kg • cm	8						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =5A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}	10						



GBU10005 THRU GBU1010

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

PARAMETER		SYMBOL	UNIT	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
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)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU10005 THRU GBU1010	B1	Approximate 3.96	20	1000	2000	TUBE
GBU10005 THRU GBU1010	A1	Approximate 3.96	250	250	4000	BOX

■ Characteristics (Typical)

FIG1: I_o - T_c Curve

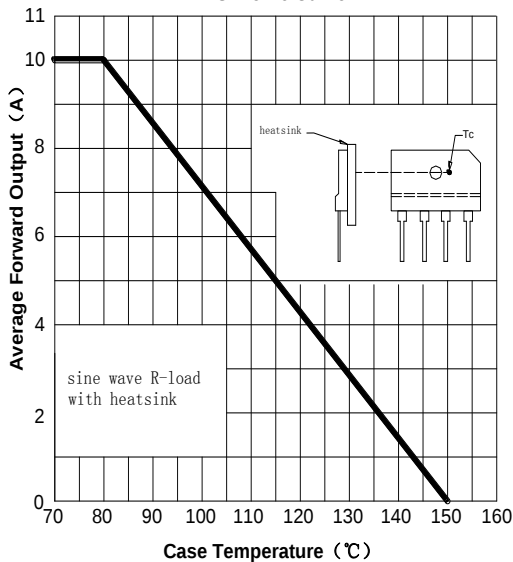


FIG2: Surge Forward Current Capability

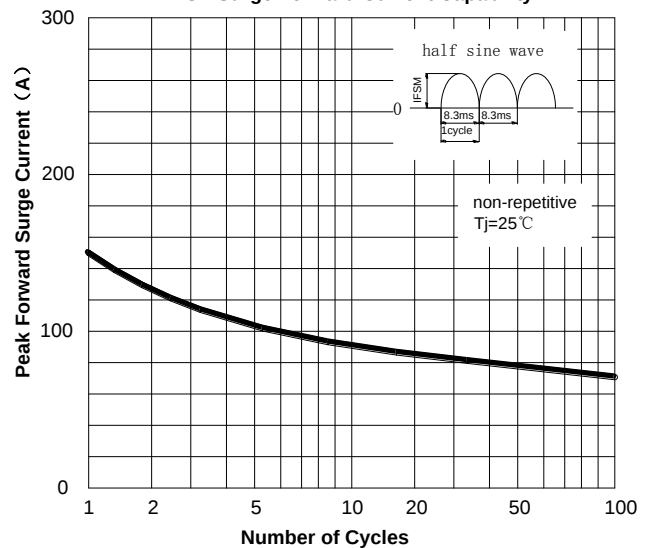


FIG3: Forward Voltage

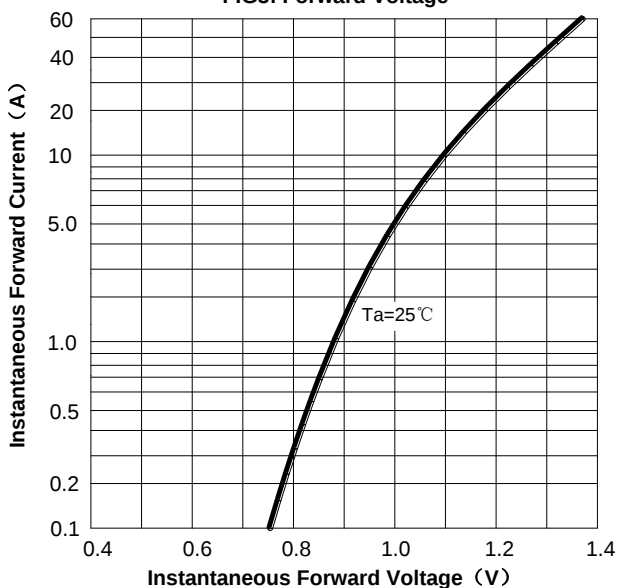
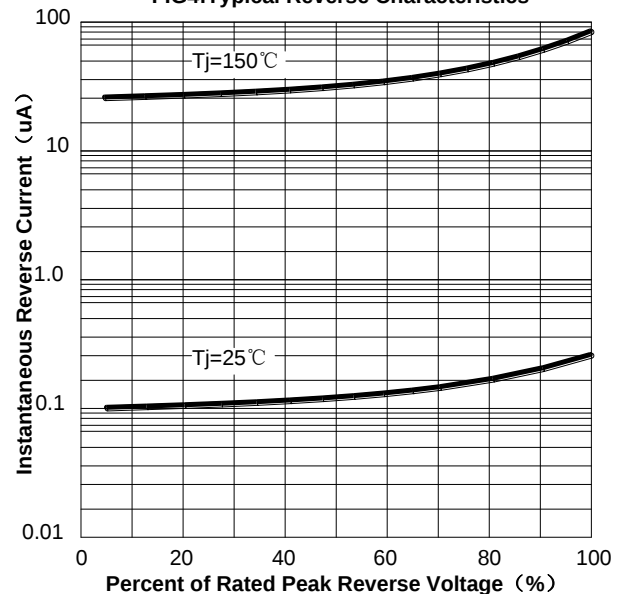
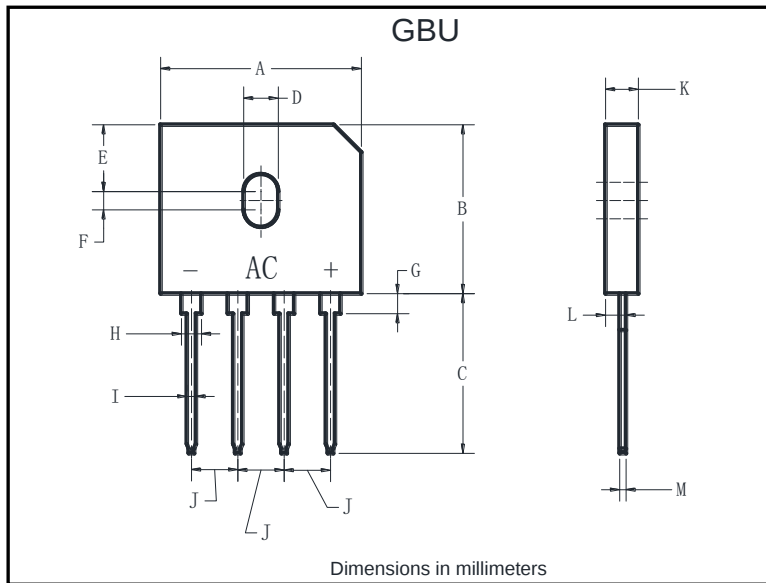


FIG4: Typical Reverse Characteristics





■ Outline Dimensions



GBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.50	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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