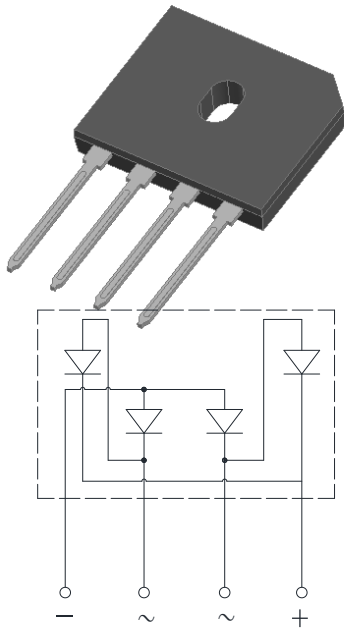


## Bridge Rectifier



### 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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBU20005A	GBU2001A	GBU2002A	GBU2004A	GBU2006A	GBU2008A	GBU2010A
Device marking code			GBU20005A	GBU2001A	GBU2002A	GBU2004A	GBU2006A	GBU2008A	GBU2010A
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz half sine wave, R-load	With heatsink Tc =87°C	IO	A	20.0					
	Without heatsink Ta =25°C			3.5					
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C	IFSM	A	300						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²S	373						
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	GBU20005A	GBU2001A	GBU2002A	GBU2004A	GBU2006A	GBU2008A	GBU2010A
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=10.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	µA	VRM=VRRM	5						



# GBU20005A THRU GBU2010A

## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBU20005A	GBU2001A	GBU2002A	GBU2004A	GBU2006A	GBU2008A	GBU2010A
Thermal Resistance	Between junction and ambient, Without heatsink	R <sub>θJ-A</sub>	°C/W	22.0						
	Between junction and case, With heatsink	R <sub>θJ-C</sub>		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
GBU20005A THRU GBU2010A	B1	Approximate 3.97	20	1000	2000	TUBE

## ■ Characteristics (Typical)

FIG1: I<sub>o</sub>-T<sub>c</sub> Curve

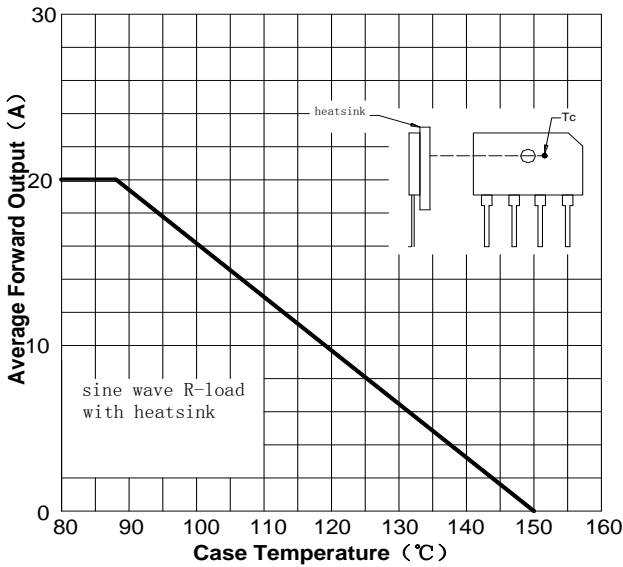


FIG2: Surge Forward Current Capability

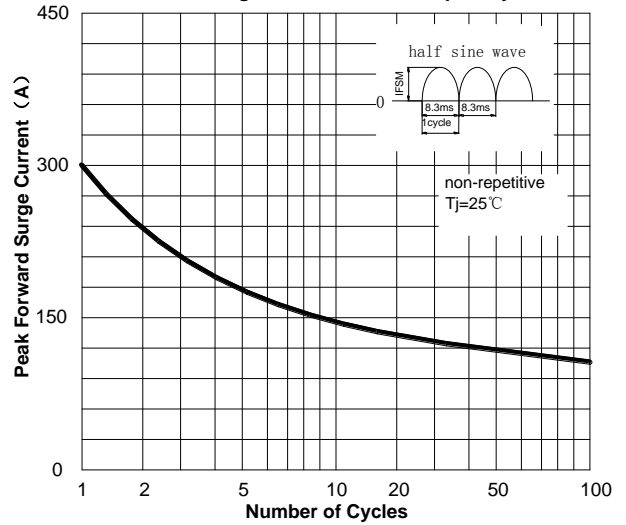


FIG3: Forward Voltage

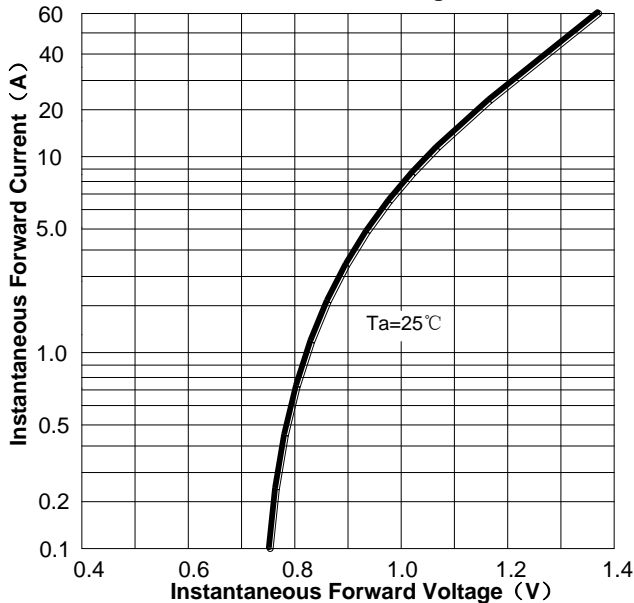
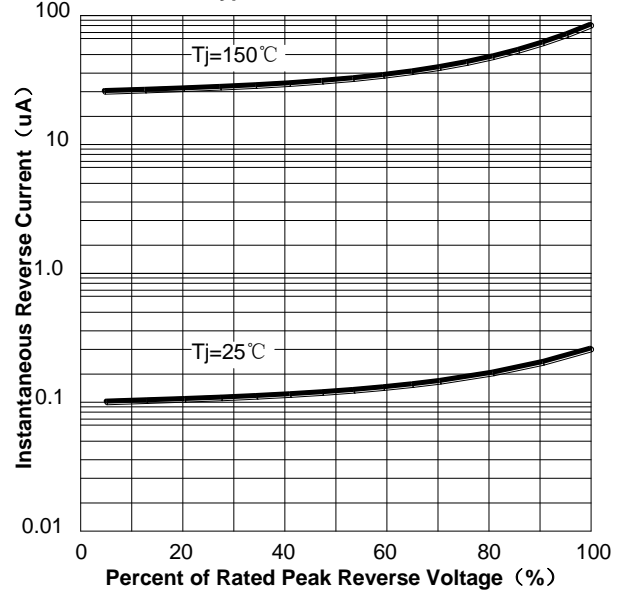


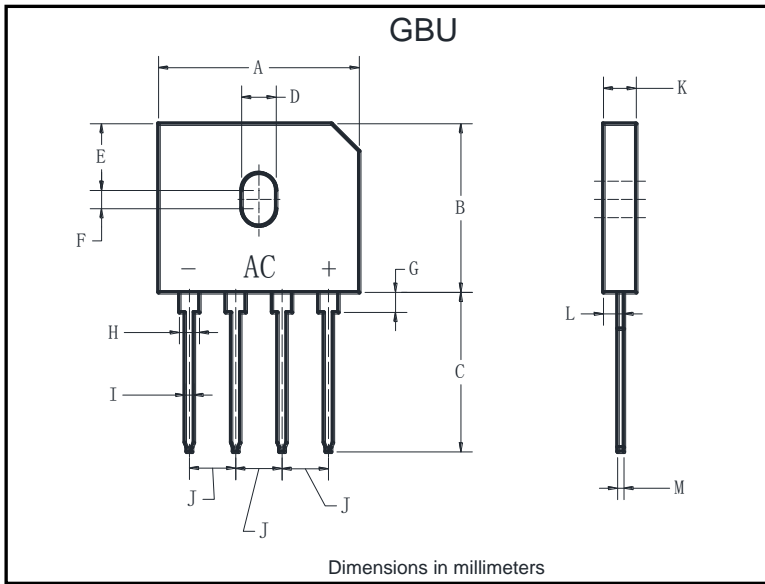
FIG4: Typical Reverse Characteristics





# GBU20005A THRU GBU2010A

## ■ 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



## GBU20005A THRU GBU2010A

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