

Features

- UL recognition, file #E230084
- Glass passivated chip junction
- 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)

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PARAMET	ER	SYMBOL	UNIT	GBU10005A	GBU1001A	GBU1002A	GBU1004A	GBU1006A	GBU1008A	GBU1010A	
Device marking code				GBU10005A	GBU1001A	GBU1002A	GBU1004A	GBU1006A	GBU1008A	GBU1010A	
Maximum Repetitive Voltage	Peak Revers	VRRM	٧	50	100	200	400	600	800	1000	
Maximum RMS Voltage		VRMS	٧	35	70	140	280	420	560	700	
Maximum DC blocking Vo	oltage	VDC	٧	50	100	200	400	600	800	1000	
Average rectified output	With heatsink Tc =110°C	lo		10.0							
current @60Hz sine wave, R-load	Without heatsink Ta =25°C		A	3.6							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		IFOLI		200							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM	Α	400							
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	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)

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBU10005A	GBU1001A	GBU1002A	GBU1004A	GBU1006A	GBU1008A	GBU1010A
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=5.0A	1.0						
Maximum DC reverse current at rated DC blocking	IR		T _j =25℃ 5							
voltage per diode		μA	T _j =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C							

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

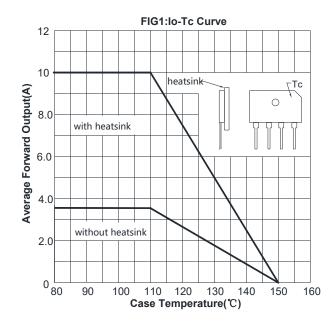
PARAMETER		SYMBOL	UNIT	GBU10005A	GBU1001A	GBU1002A	GBU1004A	GBU1006A	GBU1008A	GBU1010A
Thermal	Between junction and ambient, Without heatsink	R ₀ J-A	°C/W	25.0						
Resistance	Between junction and case, With heatsink	R ₀ J-C	C/88				2.0			

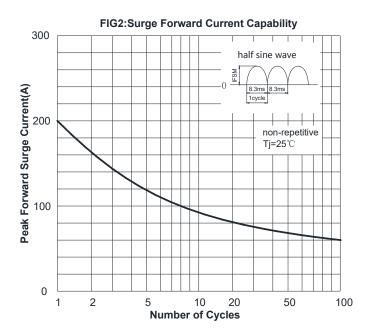
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

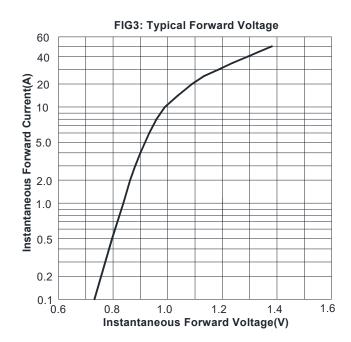
■Ordering Information (Example)

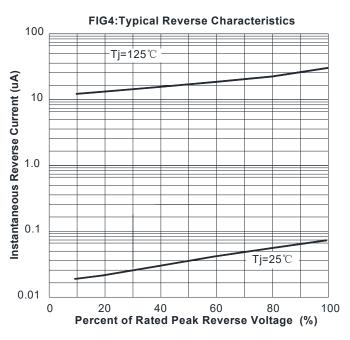
PREFERED P/N PACKING CODE		UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)		OUTER CARTON QUANTITY(pcs)	
GBU10005A THRU GBU1010A	B1	Approximate 3.96	20	1000	2000	TUBE

■ Characteristics (Typical)

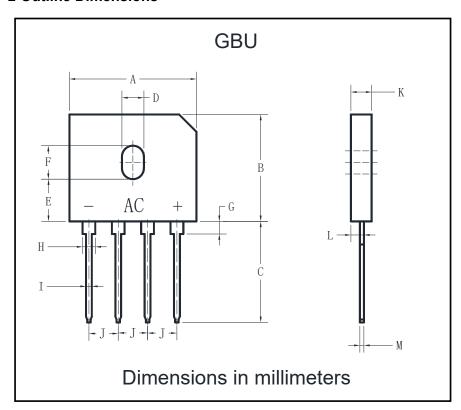








■ Outline Dimensions



GBU								
Dim	Min	Max						
Α	21.80	22.30						
В	18.30	18.80						
С	17.50	18.00						
D	3.30	3.90						
Е	7.10	7.50						
F	5.50	5.90						
G	1.91	2.54						
Н	2.06	2.54						
1	1.02	1.27						
J	4.83	5.33						
K	3.30	3.56						
L	2.40	2.66						
М	0.46	0.56						



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