

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

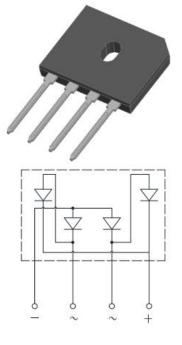
• Package: GBU

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	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410
Device marking code			GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410
Repetitive peak reverse voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, With heatsink Tc =108°C Without heatsink	lo	А	4.0						
R-load $T_a = 25^{\circ}C$			2.3						
Surge(non-repetitive)forward current @60HZ half sine wave, 1 cycle, Tj=25°C	IFSM	Α	135						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	A ² s	A ² S 75						
Storage temperature	Tstg	$^{\circ}$	-55 ~+150						
Junction temperature	Tj	$^{\circ}$	-55 ~+150						
Dielectric strength @ terminals to case, AC 1 minute	Vdis	KV	KV 2						
Mounting torque @recommend torque: 5kg • cm	Tor	kg • cm	8						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=2.0A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μΑ	V _{RM} =V _{RRM}	5						



GBU4005 THRU GBU410

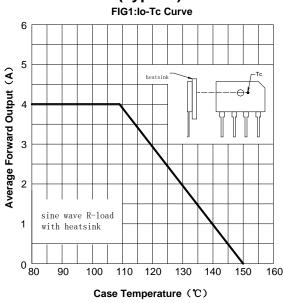
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

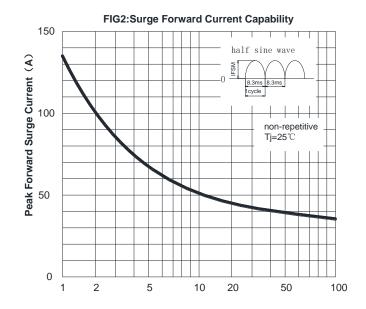
F	PARAMETER	SYMBOL	UNIT	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410
Thermal	Between junction and ambient, Without heatsink	RθJ-А	°€₩	26.0						
Resistance	Between junction and case, With heatsink	RөJ-С	C/VV	5.5						

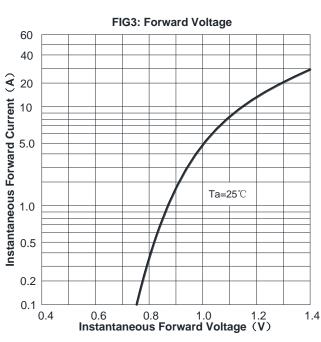
■Ordering Information (Example)

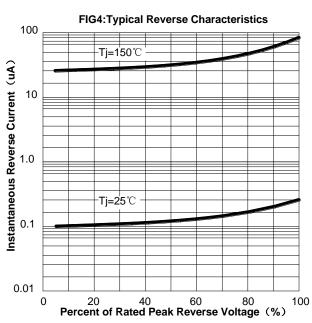
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU4005 THRU GBU410	B1	Approximate 3.96	20	1000	2000	TUBE

■ Characteristics (Typical)





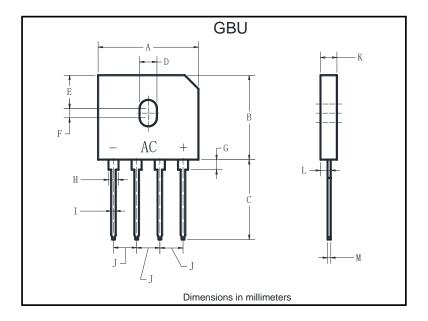








■ Outline Dimensions



GBU						
Dim	Min	Max				
Α	21.80	22.30				
В	18.30	18.80				
С	17.50	18.00				
D	3.50	4.10				
Е	7.40	7.90				
F	1.65	2.16				
G	1.91	2.54				
Н	2.06	2.54				
I	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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