

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

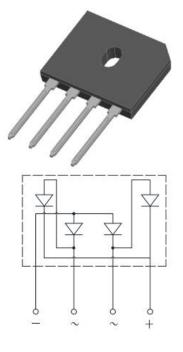
• Package: GBU

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	GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610	
Device marking code			GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610	
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave.	10	IO A		6.0						
R-load Without heat $T_a = 25^{\circ}C$	sink	, ,	2.8							
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C	IFSM	А	150							
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per d	ode I ² t	A ² s	93							
Storage temperature	T _{stg}	$^{\circ}$ C	-55 ~+150							
Junction temperature	Тј	$^{\circ}$ C	-55 ~+150							
Dielectric strength @ terminals to case, AC 1 minute	Vdis	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	GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=3.0A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μΑ	V _{RM} =V _{RRM}	5						



GBU6005 THRU GBU610

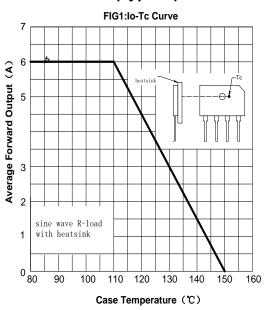
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

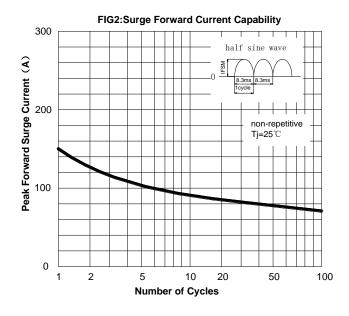
F	PARAMETER	SYMBOL	UNIT	GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610
Thermal	Between junction and ambient, Without heatsink	RøJ-A	°€₩	26.0						
Resistance	Between junction and case, With heatsink	RθJ-С	CIVV				3.4			

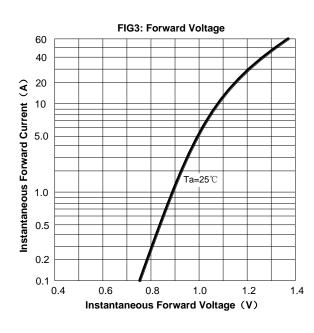
■Ordering Information (Example)

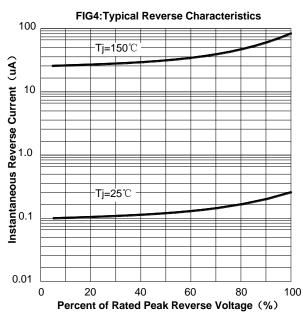
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU6005 THRU GBU610	B1	Approximate 3.96	20	1000	2000	TUBE

■ Characteristics (Typical)





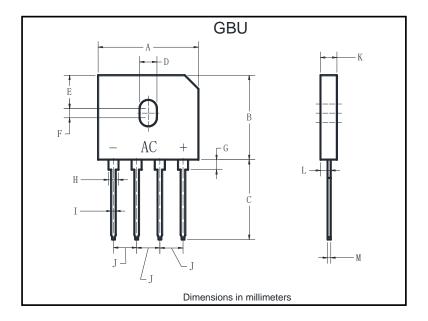






GBU6005 THRU GBU610

■ 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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