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

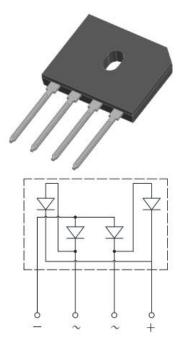
• package: GBU

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	GBU20005	GBU2001	GBU2002	GBU2004	GBU2006	GBU2008	GBU2010
Device marking code			GBU20005	GBU2001	GBU2002	GBU2004	GBU2006	GBU2008	GBU2010
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load With heatsink Tc =87°C Without heats		А	20.0						
T _a =25 °C Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T_j =25 °C	IFSM	A	3.5 220						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per did	ode I ² t	A ² s	200						
Storage temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction temperature	Тј	$^{\circ}$	-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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBU20005	GBU2001	GBU2002	GBU2004	GBU2006	GBU2008	GBU2010
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	I _{RRM}	μA	V _{RM} =V _{RRM}	5						



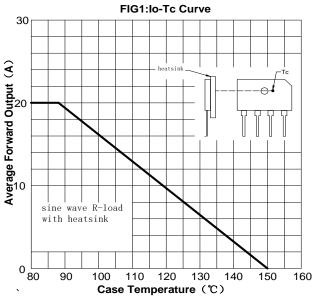
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

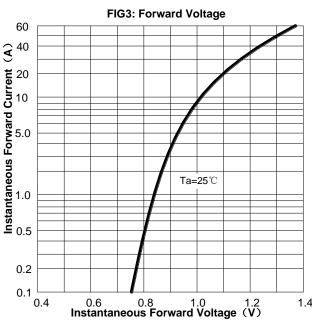
F	PARAMETER	SYMBOL	UNIT	GBU20005	GBU2001	GBU2002	GBU2004	GBU2006	GBU2008	GBU2010
Thermal	Between junction and ambient, Without heatsink	RøJ-A	°€∧W	23.0						
Resistance	Between junction and case, With heatsink	RøJ-C	C/VV				1.5			

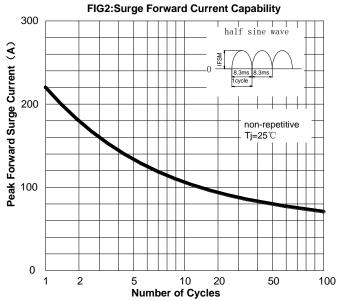
■Ordering Information (Example)

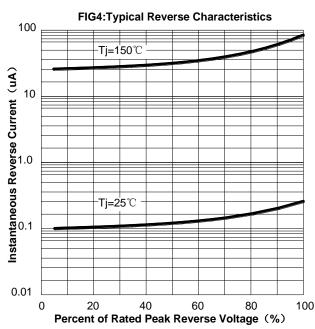
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU20005 THRU GBU2010	B1	Approximate 3.97	20	1000	2000	TUBE

■ Characteristics (Typical)



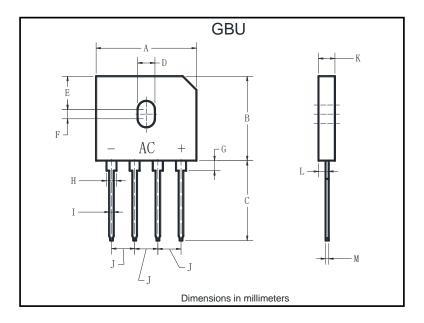








■ Outline Dimensions



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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