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.

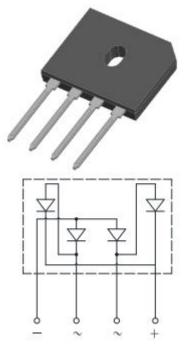
Mechanical Data

 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	GBU15005A	GBU1501A	GBU1502A	GBU1504A	GBU1506A	GBU1508A	GBU1510A
Device marking code			GBU15005A	GBU1501A	GBU1502A	GBU1504A	GBU1506A	GBU1508A	GBU1510A
Repetitive peak reverse voltage	V _{RRM}	٧	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load	k IO	А	15.0 3.2						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C	IFSM	Α	220						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diod	e I ² t	A ² s	S 200						
Storage temperature	T _{stg}	$^{\circ}$	-55 ~ + 150						
Junction temperature	Tj	$^{\circ}\!\mathbb{C}$	-55 ~+150						
Dielectric strength @ terminals to case, AC 1 minute		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	GBU15005A	GBU1501A	GBU1502A	GBU1504A	GBU1506A	GBU1508A	GBU1510A
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=7.5A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	$V_{RM}=V_{RRM}$	5						



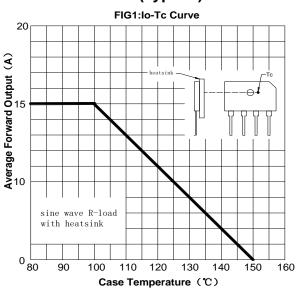
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

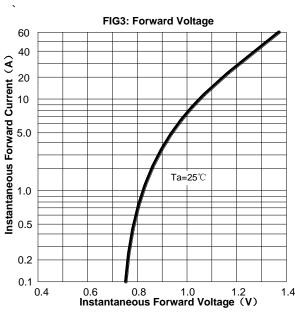
F	PARAMETER	SYMBOL	UNIT	GBU15005A	GBU1501A	GBU1502A	GBU1504A	GBU1506A	GBU1508A	GBU1510A
Thermal	Between junction and ambient, Without heatsink	RøJ-A	°C/W	23.0						
Resistance	Between junction and case, With heatsink	RøJ-C	C/VV				1.8			

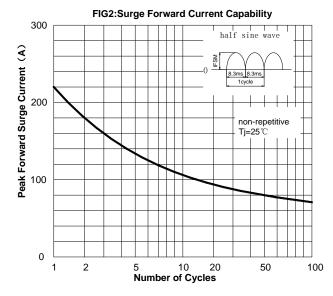
■Ordering Information (Example)

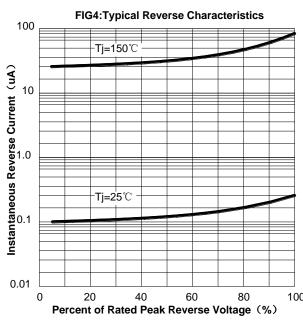
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU15005A THRU GBU1510A	B1	Approximate 3.97	20	1000	2000	TUBE

■ Characteristics (Typical)



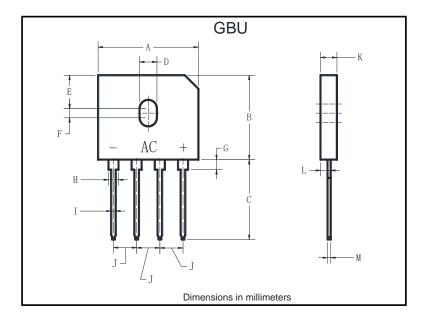








■ Outline Dimensions



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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