



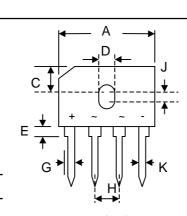
6.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705

Mechanical Data

- Case: GBU, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 4.0 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 10 cm-kg (8.8 in-lbs) Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



M

В

GBU				
Dim	Min	Max		
Α	21.80	22.30		
В	18.30	18.80		
С	7.40	7.90		
D	3.50	4.10		
E	1.52	2.03		
G	2.16	2.54		
Н	4.83	5.33		
J	1.65	2.16		
κ	1.02	1.27		
L	0.76	1.02		
М	3.30	3.56		
N	17.50	18.00		
Р	0.45	0.75		
All Dimensions in mm				

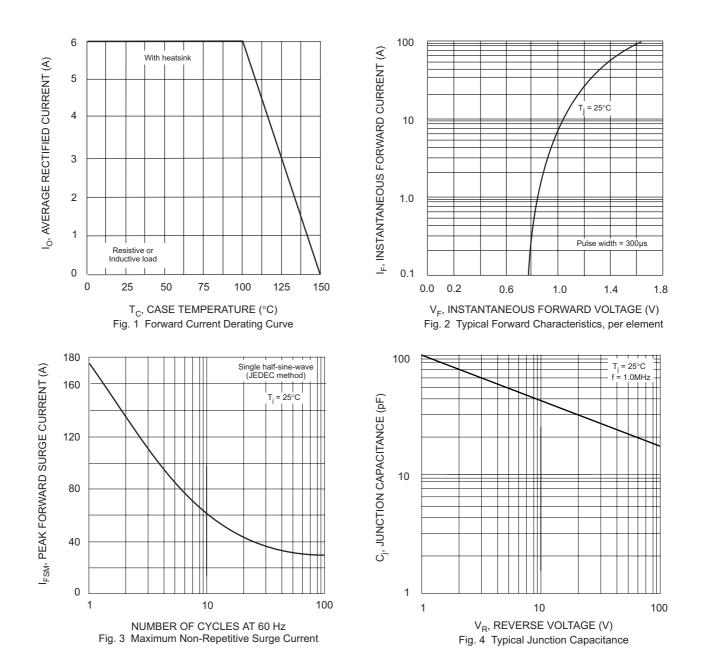
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

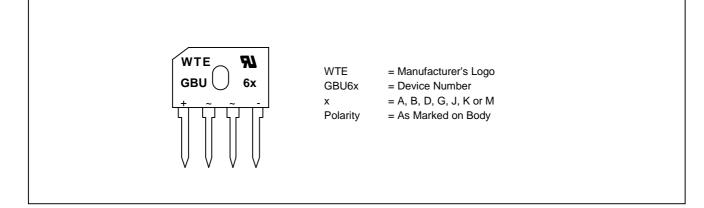
Characteristic	Symbol	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _c = 100°C (Note 1)	lo				6.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				175				A
I ² t Rating for Fusing (t < 8.3ms)	l ² t				127				A ² s
Forward Voltage per leg $@I_F = 3.0A$	VFM				1.0				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	ĪR	5.0 500			μA				
Typical Thermal Resistance per leg (Note 2)	R∂ja				7.4				°C/W
Typical Thermal Resistance per leg (Note 1)	R⊕JC	2.2				°C/W			
Operating and Storage Temperature Range	Tj, TSTG			-	55 to +15	0			°C

Note: 1. Mounted on 65 x 35 x 1.5mm Al. plate.

2. Mounted on PCB at 9.5mm lead length with 12mm² copper pad.



MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
340 x 337 x 45	1,000	375 x 360 x 213	4,000	16.5

Note: 1. Paper box, white or brown color.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBU6A	SIL Bridge	1000 Units/Box
GBU6B	SIL Bridge	1000 Units/Box
GBU6D	SIL Bridge	1000 Units/Box
GBU6G	SIL Bridge	1000 Units/Box
GBU6J	SIL Bridge	1000 Units/Box
GBU6K	SIL Bridge	1000 Units/Box
GBU6M	SIL Bridge	1000 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
To order Lead Free version (with Lead Free finish), add "-LF" suffix to

To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBU6A-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.