
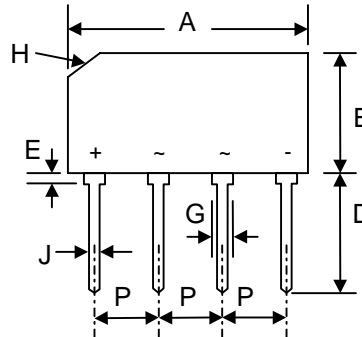


## 4.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

### Features

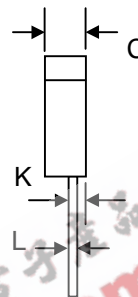
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
-  Recognized File # E157705



GBL		
Dim	Min	Max
A	20.7	20.9
B	10.4	10.7
C	3.25	3.56
D	17.3	18.2
E	1.50	2.03
G	2.03	2.41
H	3.17 x 45°	
J	1.02	1.27
K	1.27	1.53
L	0.46	0.56
P	4.8	5.3
All Dimensions in mm		

### Mechanical Data

- Case: GBL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 2.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**



### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	GBL 00	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$								
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_C = 50^\circ\text{C}$	$I_O$	4.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150							A
Forward Voltage per leg @ $I_F = 2.0\text{A}$	$V_{FM}$	1.1							V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	$I_R$	5.0 500							$\mu\text{A}$
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$	22							$^\circ\text{C/W}$
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JL}$	3.5							$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_j, T_{STG}$	-55 to +150							$^\circ\text{C}$

Note: 1. Mounted on 75 x 75 x 3.0mm Al. plate.  
2. Mounted on PCB at 9.5mm lead length with 12mm<sup>2</sup> copper pad.

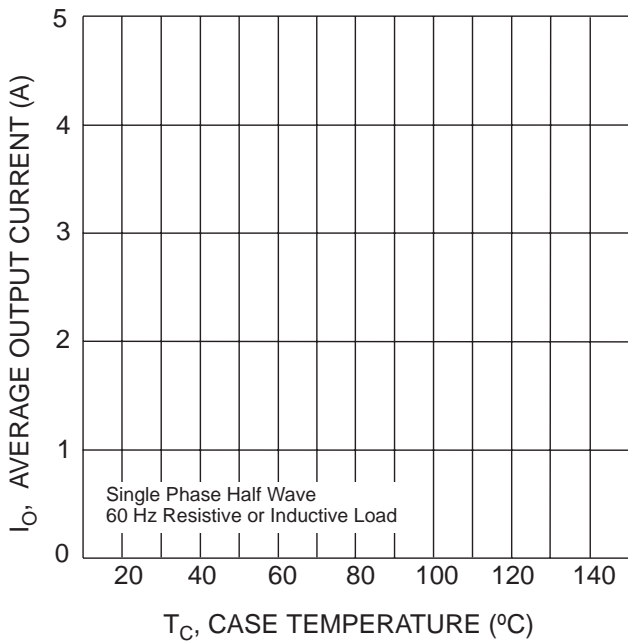


Fig. 1 Forward Current Derating Curve

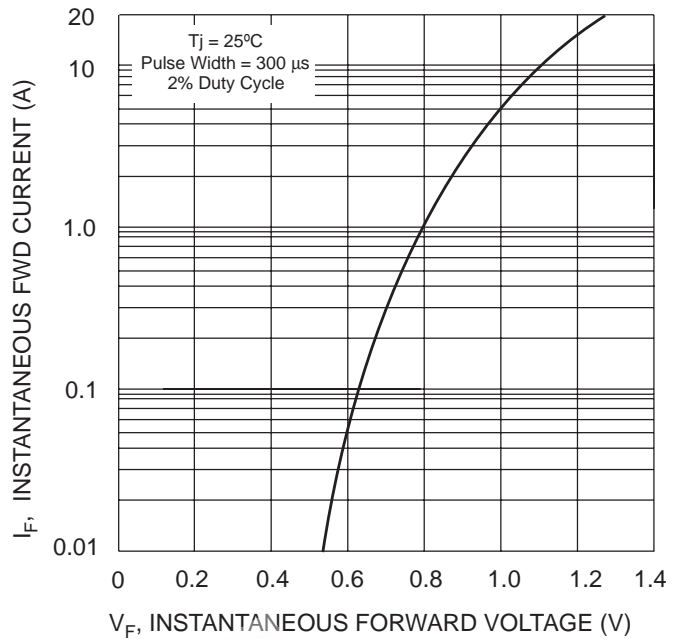


Fig. 2 Typical Forward Characteristics, per element

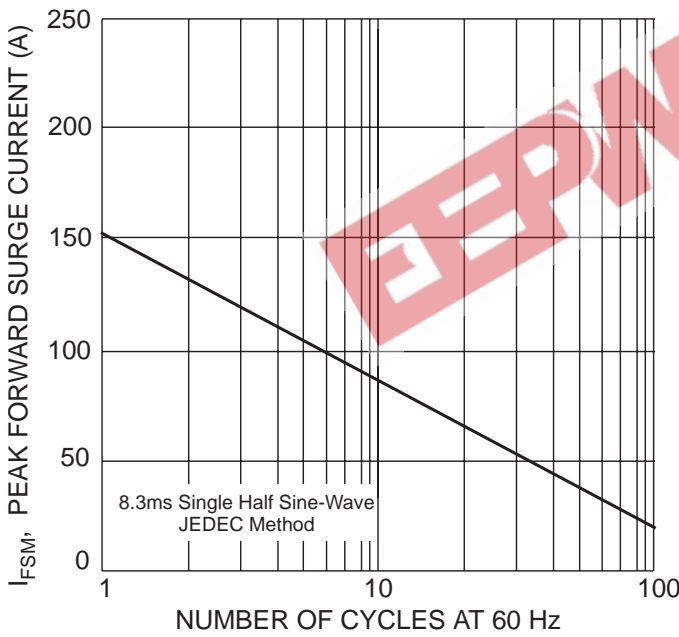


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

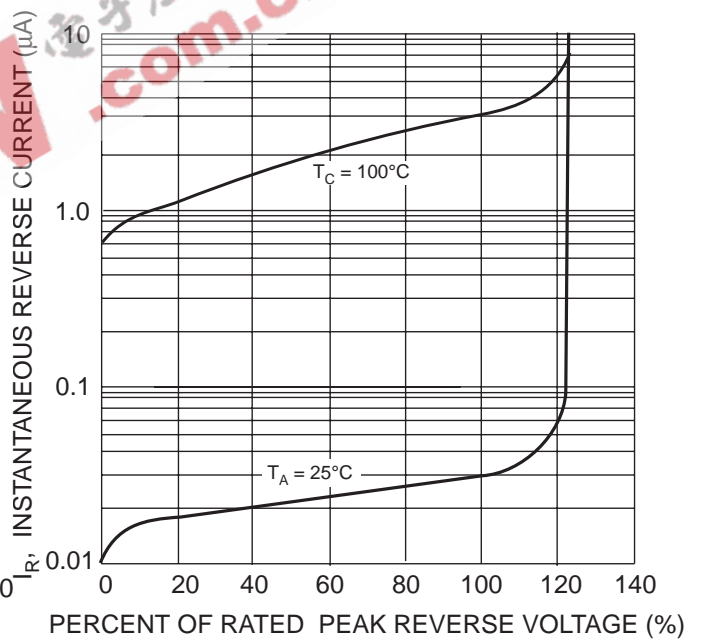
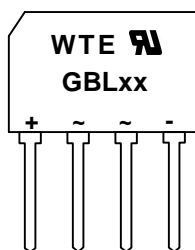


Fig. 4 Typical Reverse Characteristics, per element

## MARKING INFORMATION



WTE = Manufacturer's Logo  
 GBLxx = Device Number  
 xx = 00, 01, 02, 04, 06, 08 or 10  
 Polarity = As Marked on Body

## PACKAGING INFORMATION

### BULK

Tube Size L x W x H (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
443 x 31 x 6	20	450 x 136 x 72	800	495 x 245 x 180	2,400	10.0

**Note:** 1. Anti-static tube, water clear color.

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## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBL00	SIL Bridge	20 Units/Tube
GBL01	SIL Bridge	20 Units/Tube
GBL02	SIL Bridge	20 Units/Tube
GBL04	SIL Bridge	20 Units/Tube
GBL06	SIL Bridge	20 Units/Tube
GBL08	SIL Bridge	20 Units/Tube
GBL10	SIL Bridge	20 Units/Tube

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBL00-LF.**

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**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>

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