

# GBU4A – GBU4M

## 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

### **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

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GBU					
Dim	Min	Max			
Α	21.80	22.30			
в	18.30	18.80			
c	7.40	7.90			
D	3.50	4.10			
ш	1.52	2.03			
G	2.16	2.54			
Н	4.83	5.33			
I	1.65	2.03			
J	1.65	2.16			
К	1.02	1.27			
L	1.90	2.16			
м	3.30	3.56			
N	17.50	18.00			
Р	P 0.45 0.56				
All D	All Dimensions in mm				

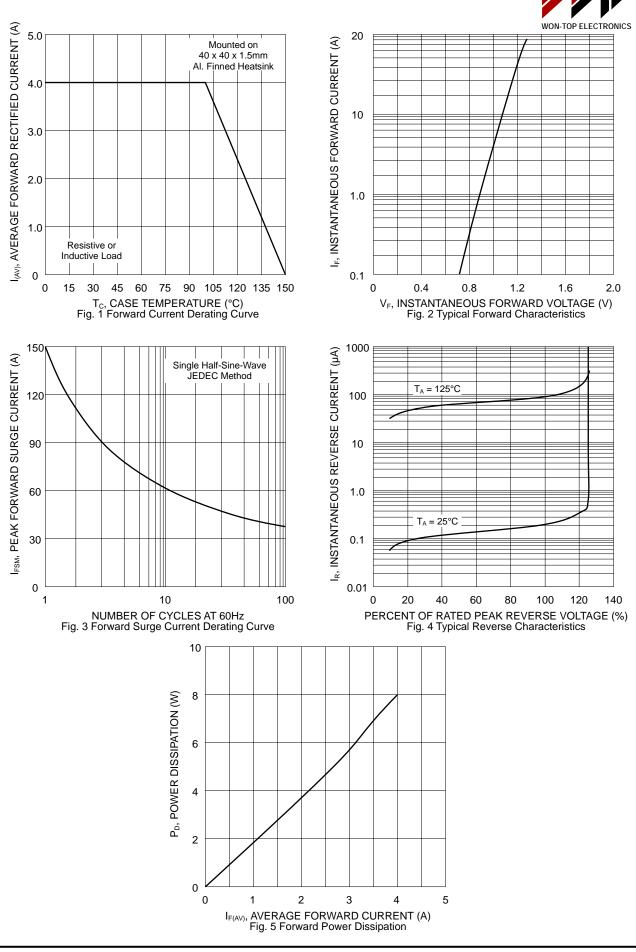
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	GBU4A	GBU4B	GBU4D	GBU4G	GBU4J	GBU4K	GBU4M	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 $@T_c = 100^{\circ}C$ (Note 1)	lo				4.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150						A	
Forward Voltage per leg $@I_F = 2.0A$	Vfm	1.0					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Irm	5.0 500						μA	
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	93						A <sup>2</sup> s	
Typical Junction Capacitance (Note 2)	CJ	100 45					pF		
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R JA R JC	22 4.2						°C/W	
RMS Isolation Voltage from Case to Leads	Viso	1500						V	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C		

Note: 1. Mounted on 40 x 40 x 1.5mm thick Al. heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mounted on PCB at 9.5mm lead length with 12 x 12mm copper pads.

# GBU4A – GBU4M

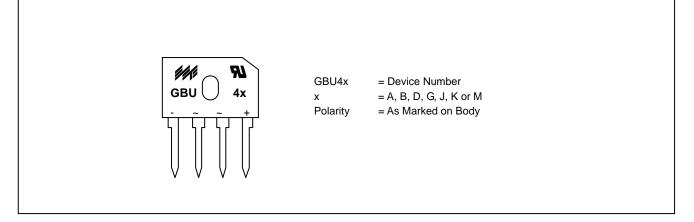


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## MARKING INFORMATION



# PACKAGING INFORMATION

### BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
470 x 42 x 7	20	495 x 150 x 140	1,000	520 x 320 x 170	2,000	14.0

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



Product No.	Package Type	Shipping Quantity		
GBU4A	SIL Bridge	20 Units/Tube		
GBU4B	SIL Bridge	20 Units/Tube		
GBU4D	SIL Bridge	20 Units/Tube		
GBU4G	SIL Bridge	20 Units/Tube		
GBU4J	SIL Bridge	20 Units/Tube		
GBU4K	SIL Bridge	20 Units/Tube		
GBU4M	SIL Bridge	20 Units/Tube		

#### **ORDERING INFORMATION**

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBU4A-LF.

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