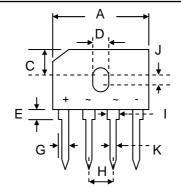


4.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

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



В

Dim Min Max 21.80 22.30 Α 18.30 18.80 В С 7.40 7.90 D 3.50 4.10 Ε 1.52 2.03 G 2.16 2.54 Н 4.83 5.33 1.65 2.03 ı J 1.65 2.16 Κ 1.02 1.27 L 1.90 2.16 М 3.30 3.56 Ν 17.50 18.00 Р 0.45 0.56 All Dimensions in mm

GBU

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

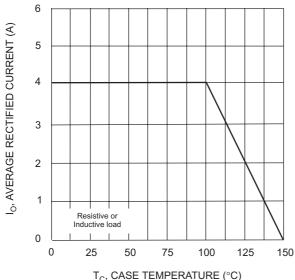
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _C = 100°C (Note 1)	lo				4.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				150				Α
I ² t Rating for Fusing (t < 8.3ms)	l ² t				93				A ² s
Forward Voltage per leg @I _F = 2.0A	VFM				1.0				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	lR				5.0 500				μΑ
Typical Thermal Resistance per leg (Note 2)	RθJA				22				°C/W
Typical Thermal Resistance per leg (Note 1)	RθJC				4.2				°C/W
Operating and Storage Temperature Range	Tj, Tstg			=	55 to +15	0			°C

Note: 1. Mounted on 40 x 40 x 15mm Al. plate.

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



 T_C , CASE TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve

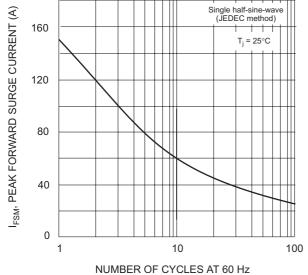


Fig. 3 Maximum Non-Repetitive Surge Current

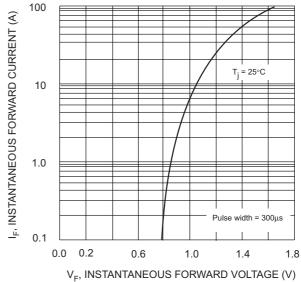
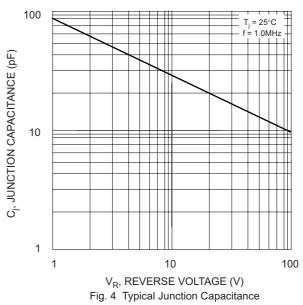
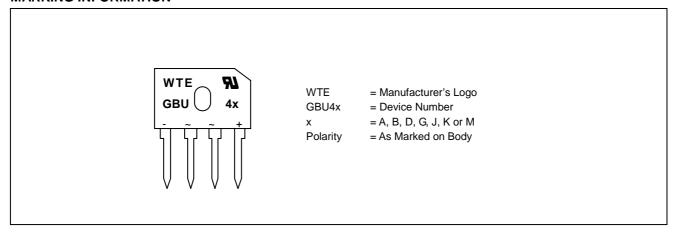


Fig. 2 Typical Fwd Characteristics



MARKING INFORMATION



PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
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.

ORDERING INFORMATION

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		

- 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 part number above. For example, GBU4A-LF.

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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.

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