



Max

30.3

20.3

5.0

18.0

4.2

3.4Ø

2.7

1.1

2.2

8.0

4.8

3.8

10.2

7.7

11.2

2.7

GBJ-6

Min

29.7

19.7

17.0

3.8

3.1Ø

2.3

0.9

1.8

0.6

4.4

3.4

9.8

7.3

10.8

2.3

Dim

В

С

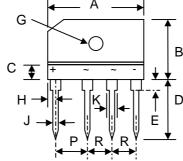
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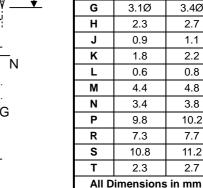
Ε

25A 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: GBJ-6, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 7.0 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	GBJ 25A	GBJ 25B	GBJ 25D	GBJ 25G	GBJ 25J	GBJ 25K	GBJ 25M	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	25						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	350					А		
Forward Voltage per diode @I _F = 12.5A	VFM	1.05					V		
	lR	10 350				μΑ			
Typical Thermal Resistance per leg (Note 2)	RθJA	22				°C/W			
Typical Thermal Resistance per leg (Note 1)	R _θ JC	1.0				°C/W			
Operating and Storage Temperature Range T _j , Ts		-55 to +150					°C		

Note: 1. Device mounted on 220 x 220 x 1.6mm thick Al plate heatsink.

2. Device mounted on P.C.B. without heatsink.

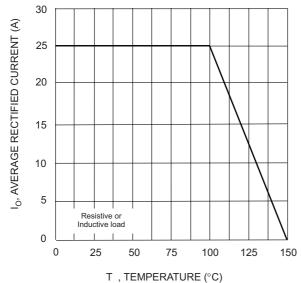


Fig. 1 Forward Current Derating Curve

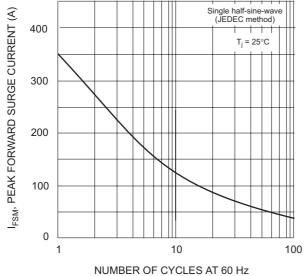


Fig. 3 Maximum Non-Repetitive Surge Current

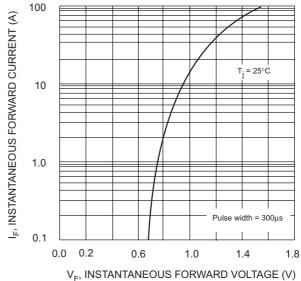
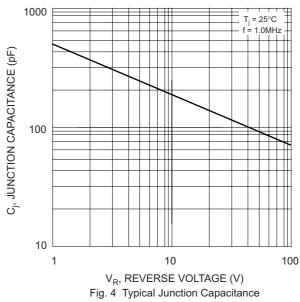
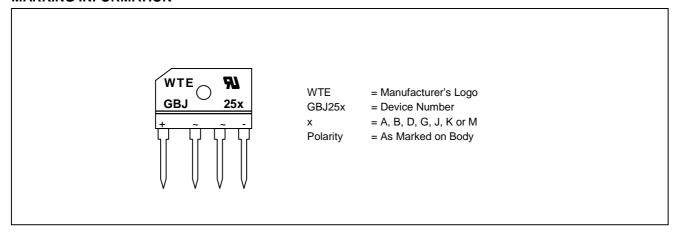


Fig. 2 Typical Fwd Characteristics, per element



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)	
475 x 40 x 7	15	490 x 145 x 135	750	510 x 305 x 160	1,500	16.0

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

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
GBJ25A	SIL Bridge	15 Units/Tube		
GBJ25B	SIL Bridge	15 Units/Tube		
GBJ25D	SIL Bridge	15 Units/Tube		
GBJ25G	SIL Bridge	15 Units/Tube		
GBJ25J	SIL Bridge	15 Units/Tube		
GBJ25K	SIL Bridge	15 Units/Tube		
GBJ25M	SIL Bridge	15 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, GBJ25A-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.

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