

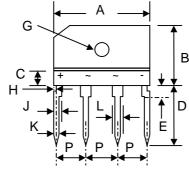
# GBJ10A – GBJ10M



### 10A 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



# M N N R G S

1120 1					
Dim	Min	Max			
Α	24.7	25.3			
В	14.7	15.3			
С	_	4.0			
D	17.0	18.0			
Е	3.3	3.7			
G	3.1Ø	3.6Ø			
Н	1.05	1.45			
J	1.7	2.1			
K	0.9	1.1			
L	1.8	2.2			
М	4.4	4.8			
N	3.4	3.8			
Р	7.3	7.7			
R	9.3	9.7			
S	2.5	2.9			
T	0.6	0.8			
All Dimensions in mm					

KBJ-4

# **Mechanical Data**

Case: KBJ-4, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

- Polarity: As Marked on Body
- Weight: 6.0 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 10A	GBJ 10B	GBJ 10D	GBJ 10G	GBJ 10J	GBJ 10K	GBJ 10M	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 <sub>C</sub> = 115°C (Note 1)	lo				10				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	170						А	
Forward Voltage per diode @I <sub>F</sub> = 5.0A	VFM				1.05				V
	lR	10 250						μΑ	
Typical Thermal Resistance per leg (Note 2)	$R_{ heta}JA$	26					°C/W		
Typical Thermal Resistance per leg (Note 1)	R <sub>θ</sub> JC	1.9						°C/W	
Operating and Storage Temperature Range	Тj, Тsтg	-55 to +150						°C	

Note: 1. Device mounted on 100 x 100 x 1.6mm thick Al plate heatsink.

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

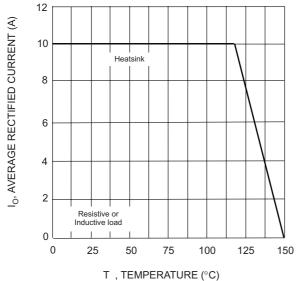


Fig. 1 Forward Current Derating Curve

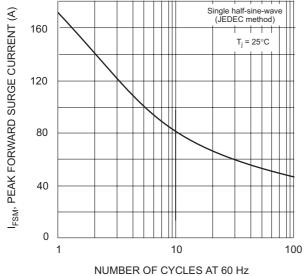


Fig. 3 Maximum Non-Repetitive Surge Current

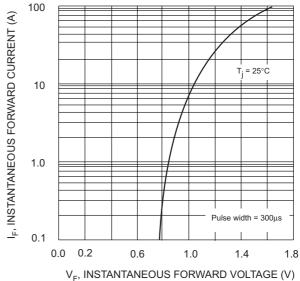
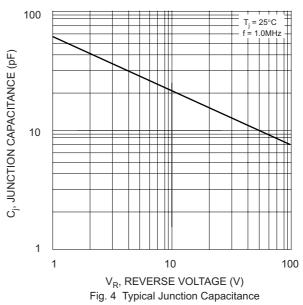
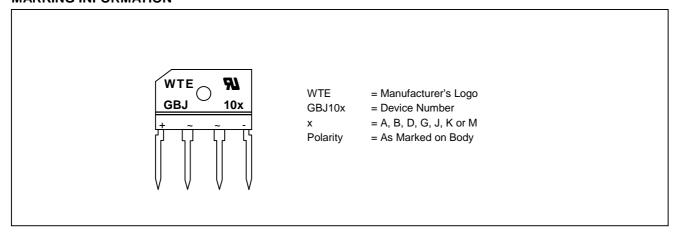


Fig. 2 Typical Fwd Characteristics, per element



# 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)	
525 x 35 x 7	20	542 x 135 x 135	1,000	557 x 270 x 270	4,000	30.0

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

### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
GBJ10A	SIL Bridge	20 Units/Tube
GBJ10B	SIL Bridge	20 Units/Tube
GBJ10D	SIL Bridge	20 Units/Tube
GBJ10G	SIL Bridge	20 Units/Tube
GBJ10J	SIL Bridge	20 Units/Tube
GBJ10K	SIL Bridge	20 Units/Tube
GBJ10M	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, GBJ10A-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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