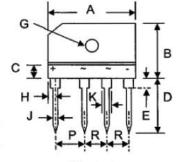


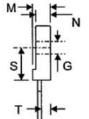


### 8.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

#### **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





Dim	Min	Max		
Α	29.7	30.3		
В	19.7	20.3		
C		5.0		
D	17.0	18.0		
E	3.8	4.2		
G	3.1Ø	3.4Ø		
н	2.3	2.7		
J	0.9	1.1		
К	1.8	2.2		
L	0.6	0.8		
M	4.4	4.8		
N	3.4 3.8			
Р	9.8 10.2			
R	7.3	7.7		
S	10.8	11.2		
Т	2.3	2.7		
All D	imensions	in mm		

GBJ-6

# **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	GBJ8A	GBJ8B	GBJ8D	GBJ8G	GBJ8J	GBJ8K	GBJ8M	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	٧
Average Rectified Output Current @T <sub>c</sub> = 110°C (Note 1)	lo	*****			8.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				200			x-3011	A
Forward Voltage per diode @I <sub>F</sub> = 4.0A	VFM				1.0				٧
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	lR				10 250				μA
Typical Thermal Resistance per leg (Note 2)	RθJA	26					°CM		
Typical Thermal Resistance per leg (Note 1)	R∉JC	2.8						°C/W	
Operating and Storage Temperature Range	Tj, TstG	-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.



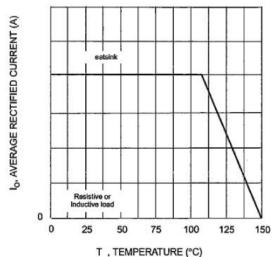
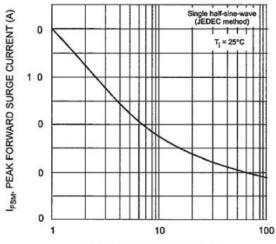
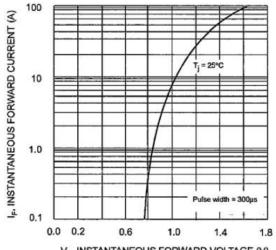


Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Non-Repetitive Surge Current



V<sub>F</sub>, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Fwd Characteristics

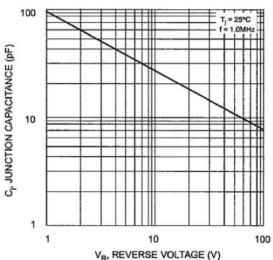
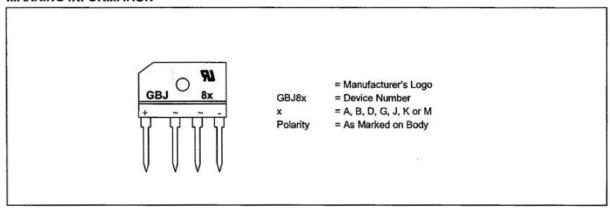


Fig. 4 Typical Junction Capacitance



### 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 15 Units/Tube		
GBJ8A	SIL Bridge			
GBJ8B	SIL Bridge	15 Units/Tube		
GBJ8D	SIL Bridge	15 Units/Tube		
GBJ8G	SIL Bridge	15 Units/Tube		
GBJ8J	SIL Bridge	15 Units/Tube		
GBJ8K	SIL Bridge	15 Units/Tube		
GBJ8M	SIL Bridge	15 Units/Tube		

<sup>1.</sup> 

Surge Components Inc. 95 East Jefryn Boulevard Deer Park, NY 11729 Tel: 631-595-1818 www.surgecomponents.com

We power your everyday.

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, GBJ8A-LF. 2.