



**Glass Passivated Bridge Rectifiers** 

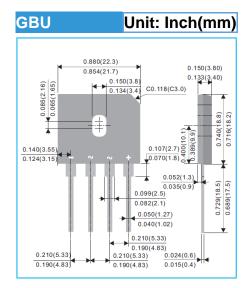
VOLTAGE 400 to 1000 Volt CURRENT 6 Ampere

### **FEATURES**

- UL Recognized File #E228882
- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique.
- Lead free in compliance with EU RoHS 2.0
- · Glass passivated chip junction

#### **MECHANICAL DATA**

- · Case: GBU
- •Terminals: Leads solderable per MIL-STD-750, Method 2026
- Polarity: As marked on bodyMounting torque: 5 inch-lbs. Max.
- Weight: 4g



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified.

PARAMETE	R	SYMBOL	GBU 6G	GBU 6J	GBU 6K	GBU 6M	UNIT
Maximum repetitive peak reverse voltage		Vrrm	400	600	800	1000	V
Maximum RMS voltage		VRMS	280	420	560	700	V
Maximum DC blocking voltage		VDC	400	600	800	1000	V
Maximum average forward rectified current		I <sub>F(AV)</sub>		Α			
Peak forward surge current, 8.3 ms single half sine-wave		FSM		А			
Rating of fusing ( t<8.3ms) (Note1)		l <sup>2</sup> t	127				A <sup>2</sup> s
Maximum instantaneous forvoltage per diode	vard I <sub>F</sub> = 3 A I <sub>F</sub> = 6 A	VF			1 .1		V
Maximum reverse current @ rated V <sub>R</sub>	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	<b>I</b> R	5 500				μA
Typical junction capacitance (Note 2)		C		pF			
Typical thermal resistance	(Note 3) (Note 4)	Re JA Re JC	22 2.5		°C/W		
Operating junction temperature range		TJ		°C			
Storage temperature range		Tstg	- 55 to +150				°C

Note 1: Non-repetitive, for t > 1ms and < 8.3ms.

Note 2: Measured at 1MHz and applied Reverse bias of 4 V DC

Note 3: Products installed on the PCB, Without heatsink •

Note 4: Products installed on aluminum plate heatsink •

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### **TYPICAL CHARACTERISTIC CURVES**

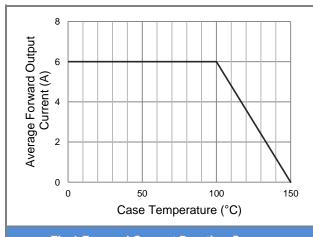


Fig.1 Forward Current Derating Curve

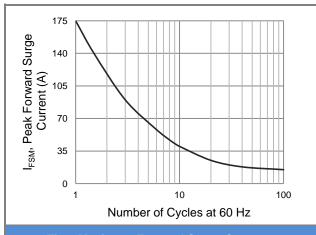


Fig.2 Maximum Forward Surge Current

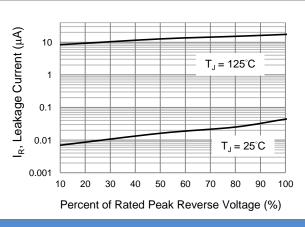


Fig.3 Typical Reverse Characteristics

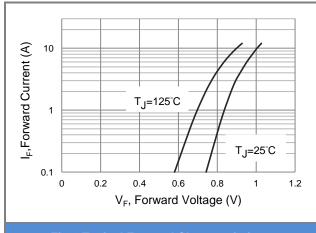
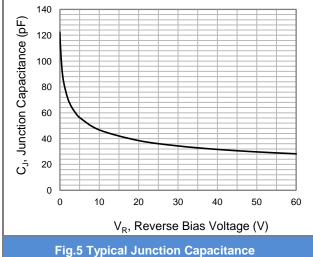


Fig.4 Typical Forward Characteristics



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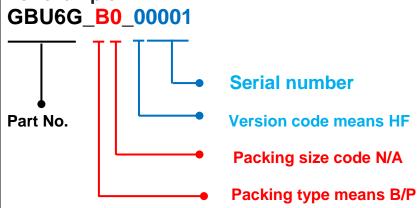




# Part No\_packing code\_Version

GBU6G\_B0\_00001 GBU6G\_B0\_10001

For example:



	Version Code XXXXX					
Packing type	I <sup>st</sup> Code	Packing size code	2 <sup>st</sup> Code	HF or RoHS	I <sup>st</sup> Code	2 <sup>st</sup> ~5 <sup>st</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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