# DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

GBL6A THRU GBL6M

## TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

#### FEATURES

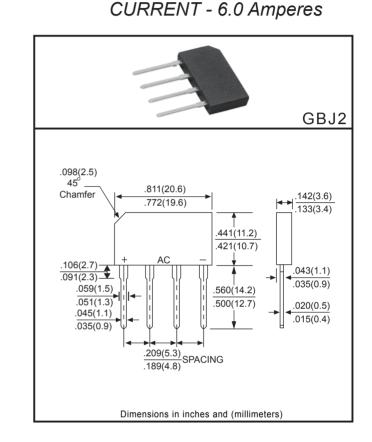
- \* Ideal for printed circuit boardd
- \* High surge current capability
- \* Low forward voltage drop
- \* Glass passivated junction

#### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94-V0 rate flame retardant
- \* Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- \* Polarity: As marked
- \* Mounting position: Any
- \* Weight: 4.6 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

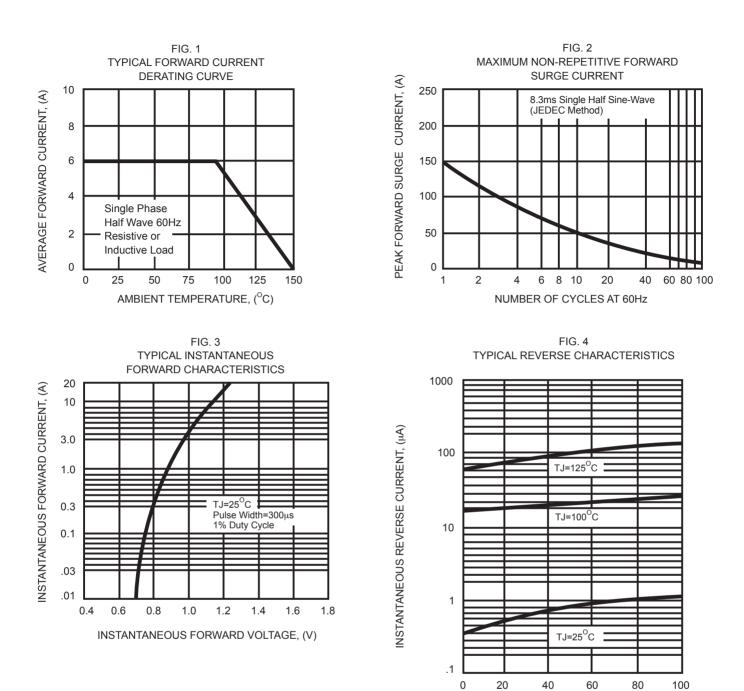
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



		SYMBOL	GBL6A	GBL6B	GBL6D	GBL6G	GBL6J	GBL6K	GBL6M	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 90°C		lo	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150						Amps	
Maximum Instantaneous Forward Voltage at 3.0A DC		VF	1.1						Volts	
	= 25°C = 125°C	IR	10 100				μAmps			
I <sup>2</sup> t Rating for Fusing (t<8.3mS)		l <sup>2</sup> t	93.37							A <sup>2</sup> s
Operating and Storage Temperature Range		TJ,TSTG	-55 to +150							°C

1

### **RATING AND CHARACTERISTIC CURVES (GBL6A THRU GBL6M)**



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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