

# DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBL2A THRU GBL2M

# TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

#### **FEATURES**

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

#### **MECHANICAL DATA**

\* Case: Molded plastic

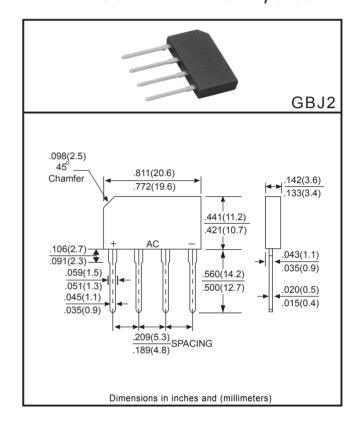
\* Epoxy: UL 94-V0 rate flame retardant
\* Terminals: Solder plated solderable per

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%.

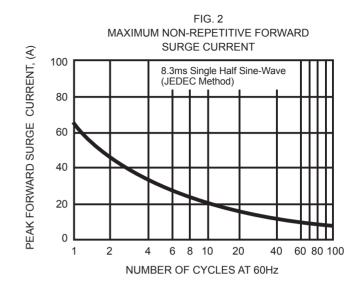


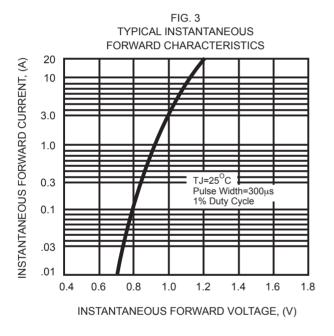
	SYMBOL	GBL2A	GBL2B	GBL2D	GBL2G	GBL2J	GBL2K	GBL2M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 50°C	lo	2.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	65						Amps	
Maximum Instantaneous Forward Voltage at 2.0A DC	VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage  @TJ = 25 @TJ = 12	── IR	10 100						μAmps	
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	l <sup>2</sup> t	17.5			A <sup>2</sup> s				
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150				°C			

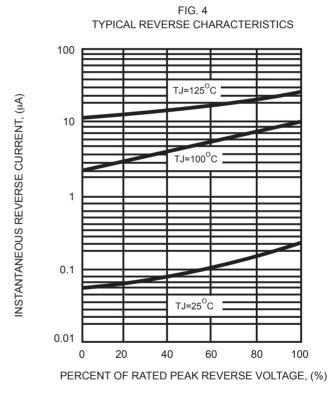
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### RATING AND CHARACTERISTIC CURVES (GBL2A THRU GBL2M)

FIG. 1 TYPICAL FORWARD CURRENT **DERATING CURVE** 5 AVERAGE FORWARD CURRENT, (A) Single Phase Half Wave 60Hz 4 Resistive or Inductive Load 3 2 1 0 0 25 50 75 100 125 150 AMBIENT TEMPERATURE, (°C)







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