



# DC COMPONENTS CO., LTD.

## RECTIFIER SPECIALISTS

GBJ20A  
THRU  
GBJ20M

### TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

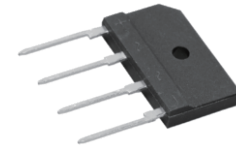
CURRENT - 20 Amperes

#### FEATURES

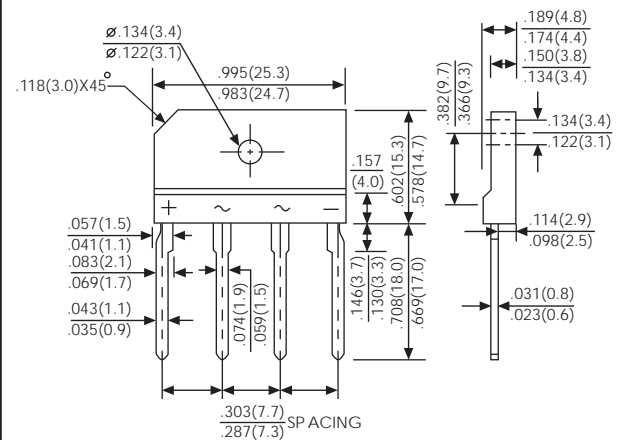
- \* Ideal for printed circuit board
- \* High surge current capability
- \* Low forward voltage drop
- \* Glass passivated junction

#### 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



GBJ4-10



Dimensions in inches and (millimeters)

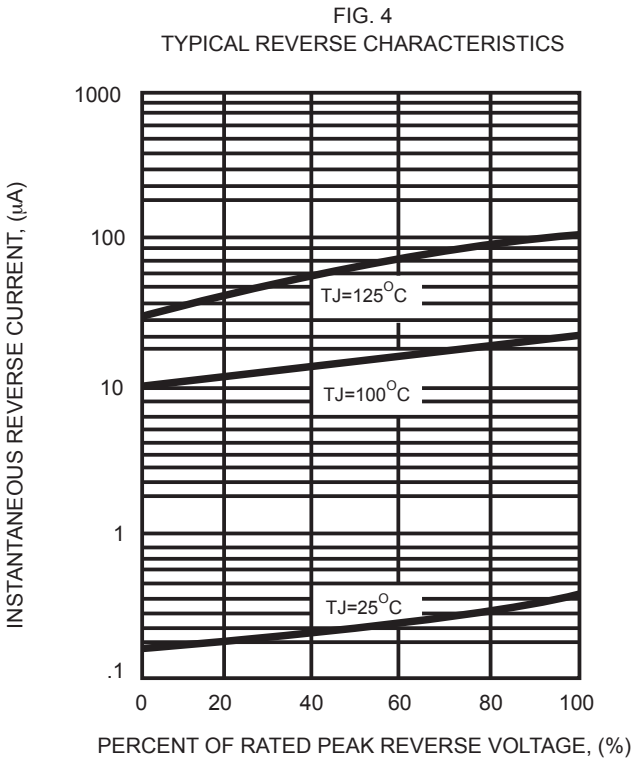
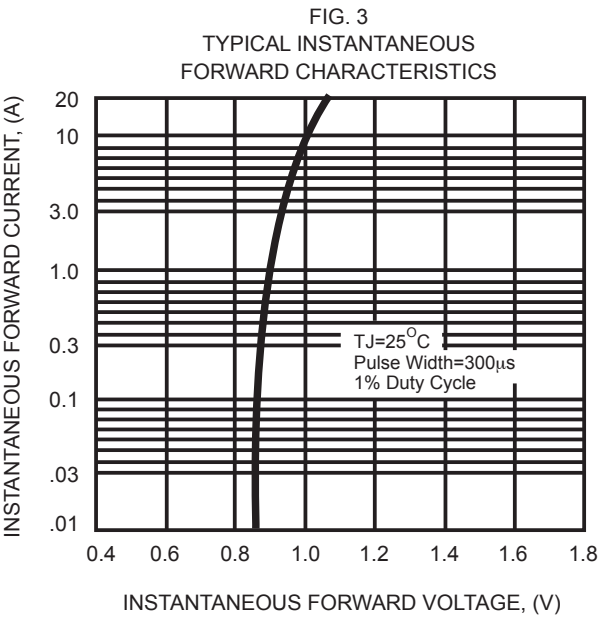
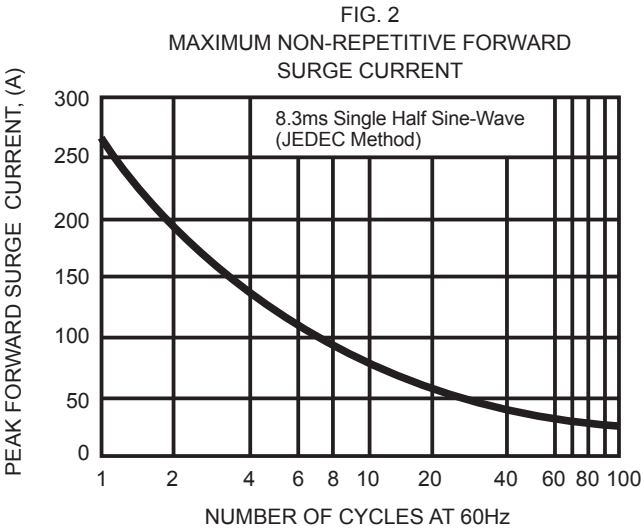
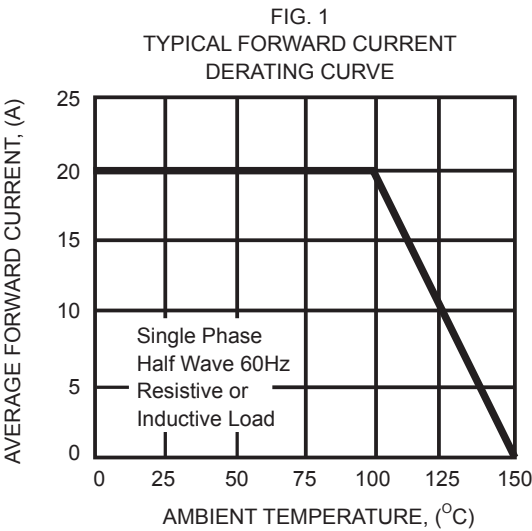
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	GBJ20A	GBJ20B	GBJ20D	GBJ20G	GBJ20J	GBJ20K	GBJ20M	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 100°C		I <sub>O</sub>	20							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	260							Amps
Maximum Instantaneous Forward Voltage at 10A DC		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>J</sub> = 25°C	I <sub>R</sub>	10							μAmps
	@T <sub>J</sub> = 125°C		100							
I <sup>2</sup> t Rating for Fusing (t<8.3mS)		I <sup>2</sup> t	280.5							A <sup>2</sup> s
Operating and Storage Temperature Range		T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150							°C

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

# RATING AND CHARACTERISTIC CURVES (GBJ20A THRU GBJ20M)



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