

# 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 boardd
- \* High surge current capability
- \* Low forward voltage drop
- \* Glass passivated junction

#### **MECHANICAL DATA**

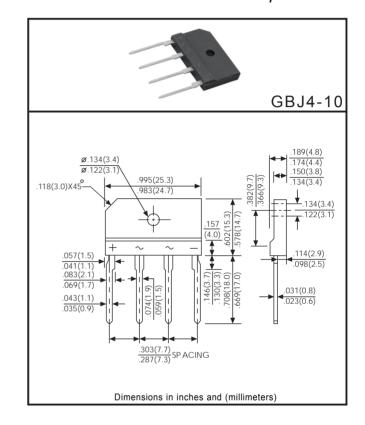
\* Case: Molded plastic

\* 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%.

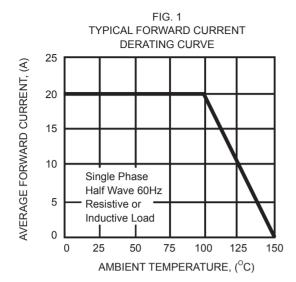


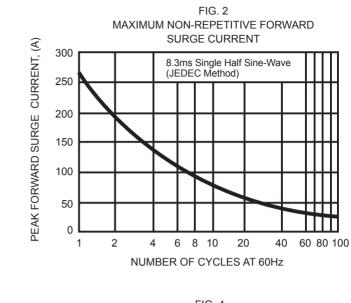
	SYMBOL	GBJ20A	GBJ20B	GBJ20D	GBJ20G	GBJ20J	GBJ20K	GBJ20M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 100°C	lo	20							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	260						Amps	
Maximum Instantaneous Forward Voltage at 10A DC	VF	1.1					Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage $@TJ = 25^{\circ}C$ $@TJ = 125^{\circ}C$	- IR	10 100							μ <b>A</b> mps
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	l <sup>2</sup> t	280.5					A <sup>2</sup> s		
Operating and Storage Temperature Range	Т <sub>J</sub> ,Тsтg	-55 to +150					°C		

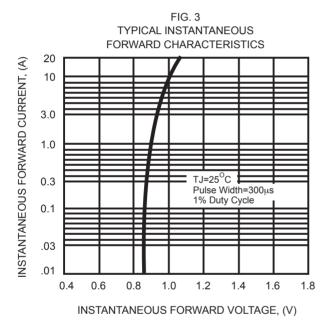
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

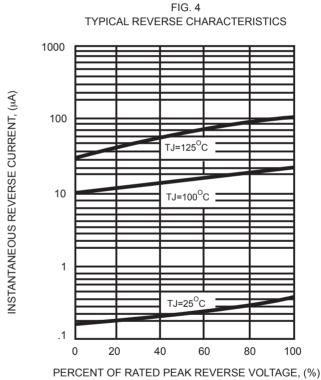
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## RATING AND CHARACTERISTIC CURVES (GBJ20A THRU GBJ20M)









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