

# GBJ801 THRU GBJ810

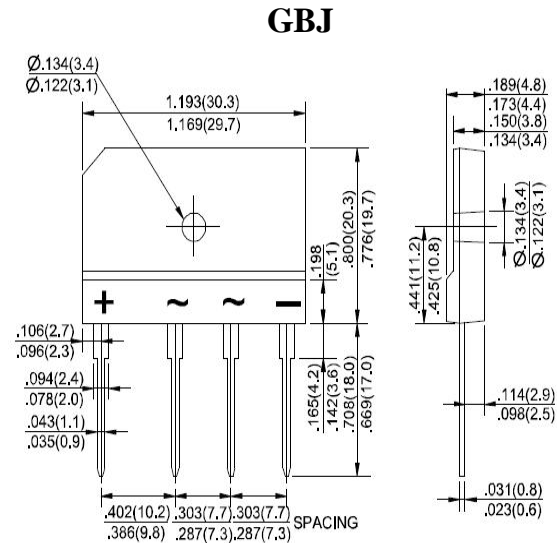
SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS  
 REVERSE VOLTAGE 100 to 1000 Volts FORWARD CURRENT 8.0 Ampere

## FEATURES

- ◆ Rating to 1000V PRV.
- ◆ Ideal for printed circuit board.
- ◆ Low forward voltage drop, high current capability.
- ◆ Reliable low cost construction utilizing molded plastic technique results in inexpensive product.
- ◆ The plastic material has UL flammability classification 94V-0.
- ◆ Electrically isolated base-1500 Volts

## Mechanical Data

- ◆ Polarity: Symbols molded on body.
- ◆ Weight: 0.26 ounces, 7.0 grams.
- ◆ Mounting position: Any.



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

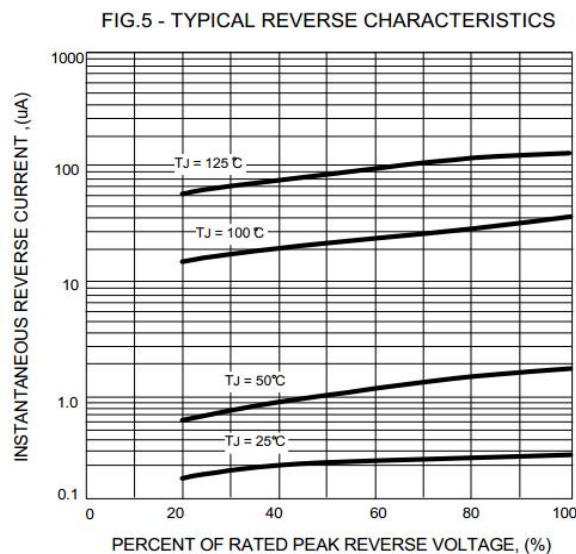
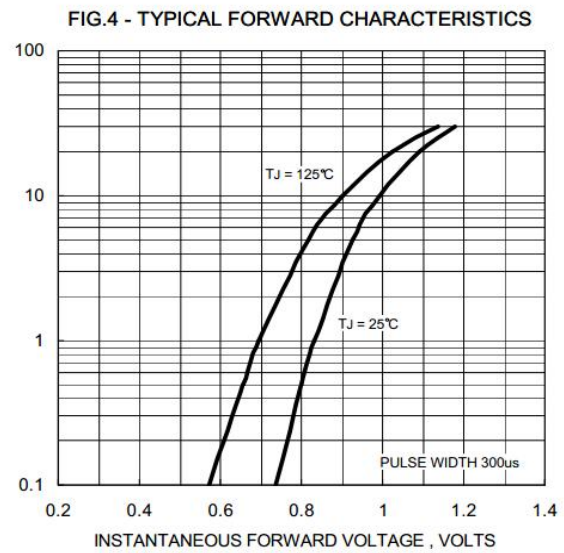
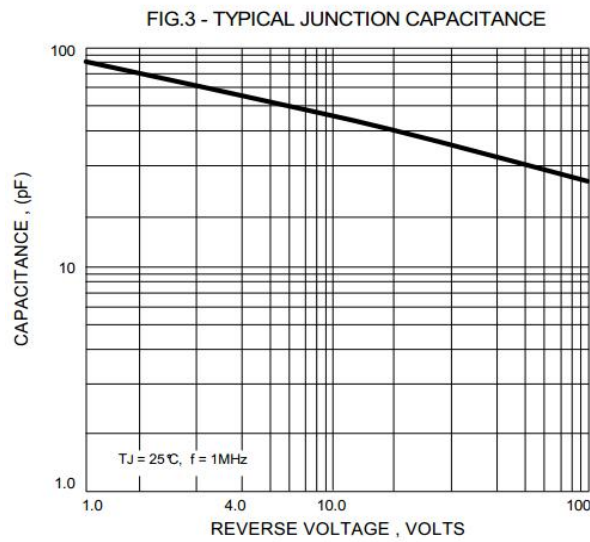
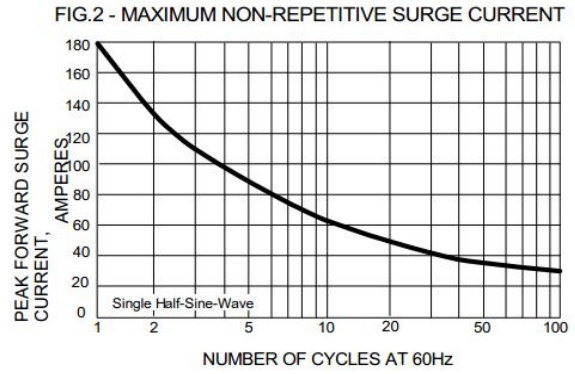
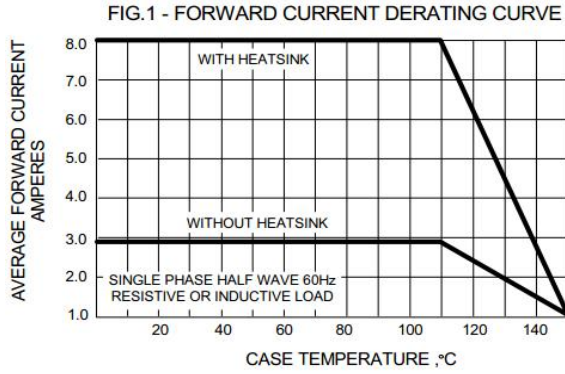
PARAMETER	SYMBOL	GBJ801	GBJ802	GBJ804	GBJ806	GBJ808	GBJ810	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T <sub>C</sub> =110°C (without heatsink)	I <sub>(AV)</sub>	8.0 2.9						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I <sub>FSM</sub>	180						A
Maximum forward Voltage at 3.0A DC	V <sub>F</sub>	1.0						V
Maximum DC Reverse Current @ T <sub>J</sub> =25°C at Rated DC Blocking voltage @ T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 500						μA
I <sup>2</sup> t Rating for fusing (t<8.3ms)	I <sup>2</sup> t	120						A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>	55						pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	2.0						°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150						°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150						°C

Note: 1. Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.  
 2. Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

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## RATING AND CHARACTERISTIC CURVES GBJ801 THRU GBJ810



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.