

**GBJ601 thru GBJ610**



**SINGLE-PHASE BRIDGE RECTIFIER  
GLASS PASSIVATED BRIDGE RECTIFIERS**

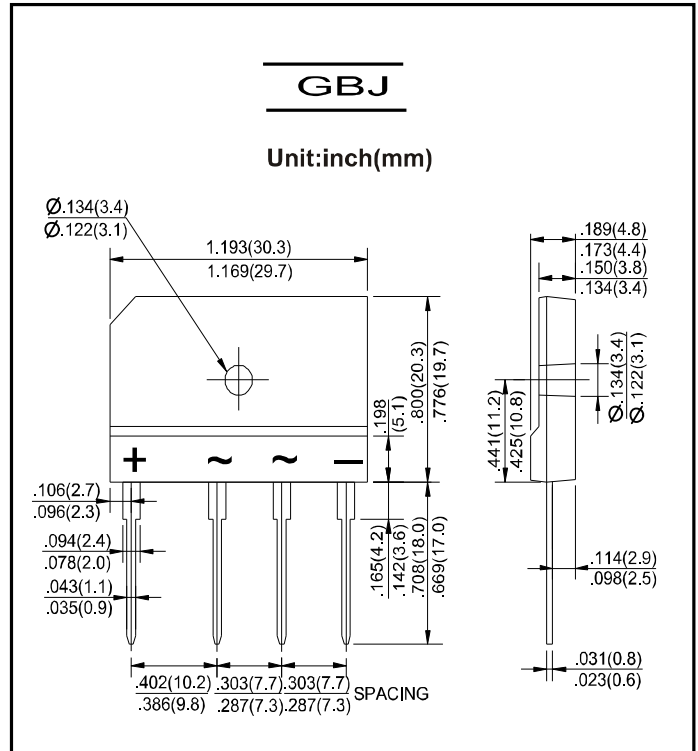
REVERSE VOLTAGE - **100 to 1000** Volts  
FORWARD CURRENT - **6.0** Amperes

**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



**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%

CHARACTERISTICS	SYMBOL	GBJ 601	GBJ 602	GBJ 604	GBJ 606	GBJ 608	GBJ 610	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @Tc=110°C (without heatsink)	IAV	6.0 2.8						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	150						A
Maximum forward Voltage at 3.0A DC	VF	1.0						V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=125°C	IR	5.0 500						uA
I <sup>2</sup> t Rating for fusing (t < 8.3ms)	I <sup>2</sup> t	93						A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	CJ	55						pF
Typical Thermal Resistance (Note 2)	RθJC	2.5						°C/W
Operating Temperature Range	TJ	-55 to +150						°C
Storage Temperature Range	TSTG	-55 to +150						°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0VDC.  
2.Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVER

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