

## GBJ6A~GBJ6M

### Single Phase 6.0Amp Glass passivated Bridge Rectifiers

#### Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated Junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

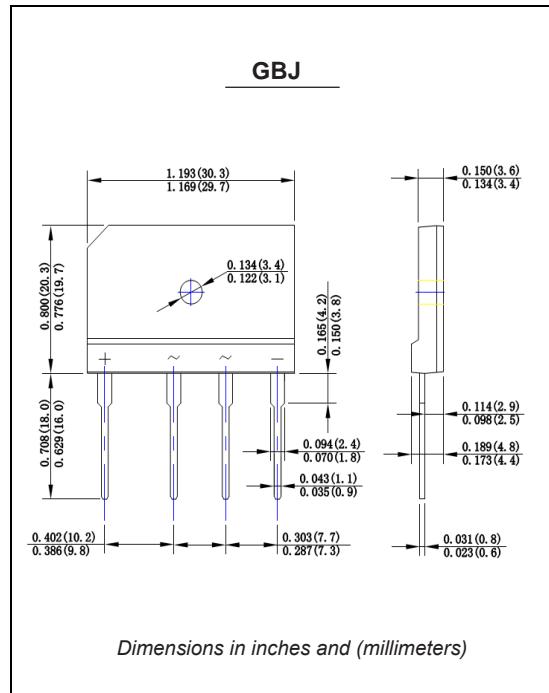
#### Mechanical Data

**Case:** Molded plastic body

**Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity:** Polarity symbol marking on body

**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 current derate by 20%.

	SYMBOLS	GBJ 6A	GBJ 6B	GBJ 6D	GBJ 6G	GBJ 6J	GBJ 6K	GBJ 6M	UNITS
Maximum repetitive 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>L</sub> =50°C	I <sub>(AV)</sub>				6.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>					150			Amps
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>				1.1				Volts
Maximum DC reverse current T <sub>A</sub> =25°C at rated DC blocking voltage T <sub>A</sub> =125°C	I <sub>R</sub>				5.0				uA
Typical junction capacitance (Note 1)	C <sub>J</sub>				25.0				pF
Typical thermal resistance (Note 2)	R <sub>qJA</sub>				20				°C/W
Operating junction and storage temperature range	T <sub>J,T<sub>STG</sub></sub>				-50 to +150				°C

**Note:** 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Mounted on PCB with 12\*12mm copper pad

## Ratings And Characteristic Curves

### GBJ6A THRU GBJ6M

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

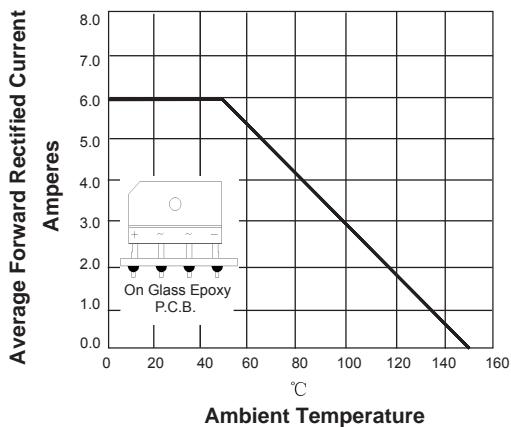


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

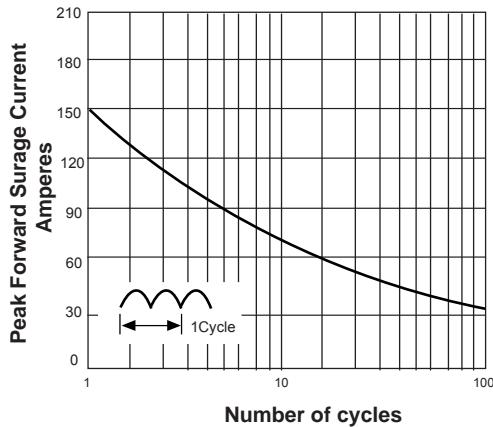


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

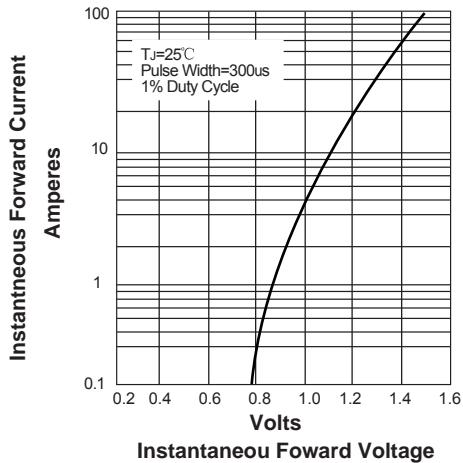


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

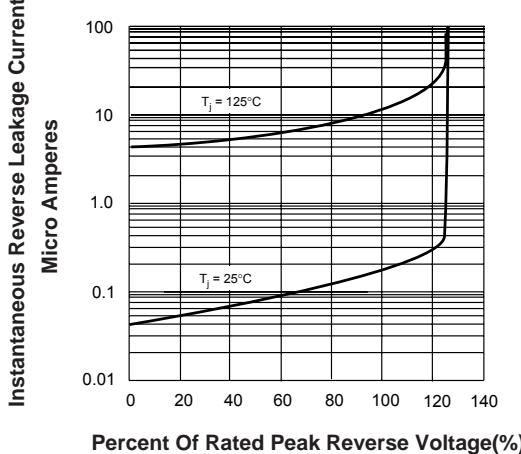


FIG. 5-TYPICAL JUNCTION CAPACITANCE

