

GBJ2501 THRU GBJ2510

SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS
 REVERSE VOLTAGE 100 to 1000 Volts FORWARD CURRENT 25 Ampere

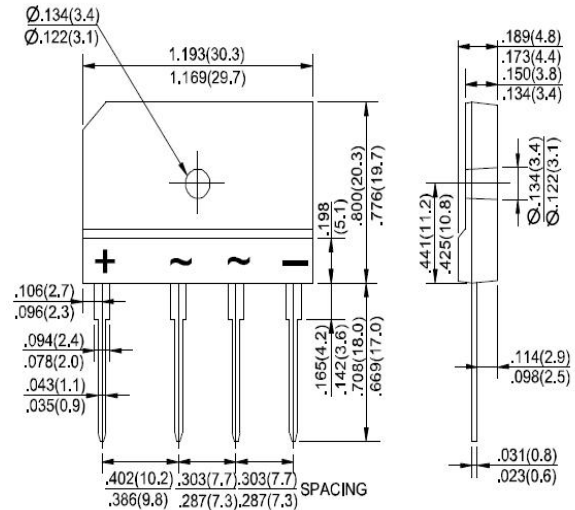
FEATURES

- ◆ 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.

GBJ



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%

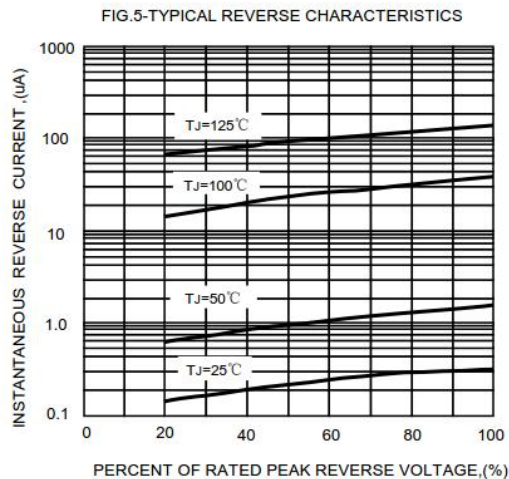
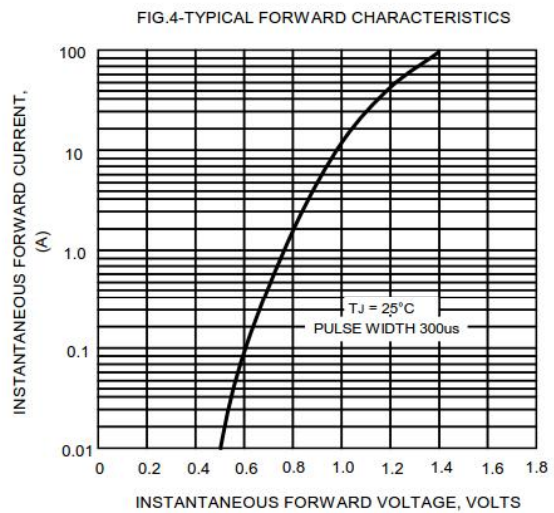
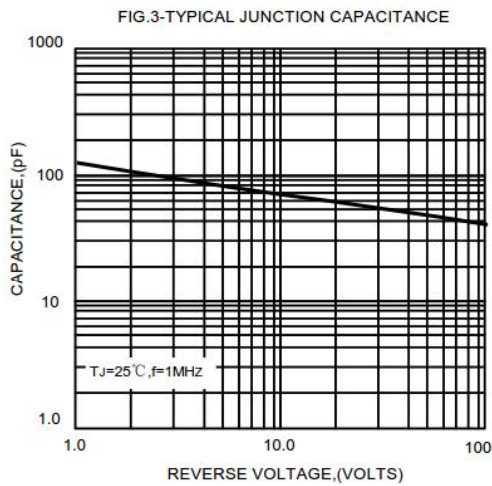
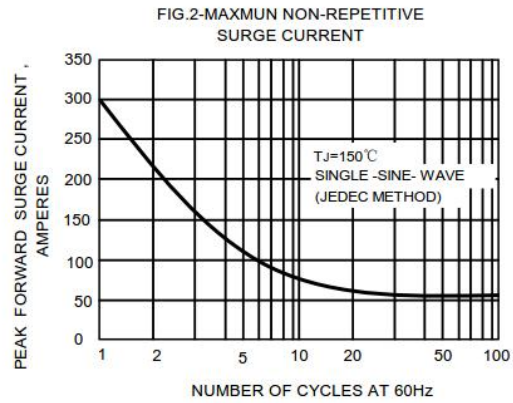
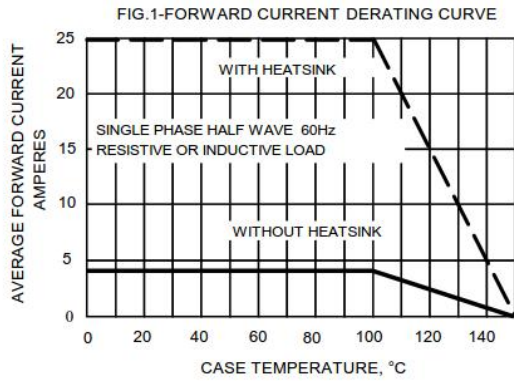
PARAMETER	SYMBOL	GBJ2501	GBJ202	GBJ2504	GBJ2506	GBJ2508	GBJ2510	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T _C =110°C (without heatsink)	I _(AV)	25.0 4.2						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I _{FSM}	300						A
Maximum forward Voltage at 12.5A DC	V _F	1.0						V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking voltage @ T _J =125°C	I _R	5.0 500						μA
I ² t Rating for fusing (t<8.3ms)	I ² t	510						A ² S
Typical Junction Capacitance per element (Note 1)	C _J	85						pF
Typical Thermal Resistance (Note 2)	R _{θJC}	1.0						°C/W
Operating Temperature Range	T _J	-55 to +150						°C
Storage Temperature Range	T _{STG}	-55 to +150						°C

Note: 1. Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.
 2. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

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RATING AND CHARACTERISTIC CURVES GBJ2501 THRU GBJ2510



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