

GBJ601 THRU GBJ610

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

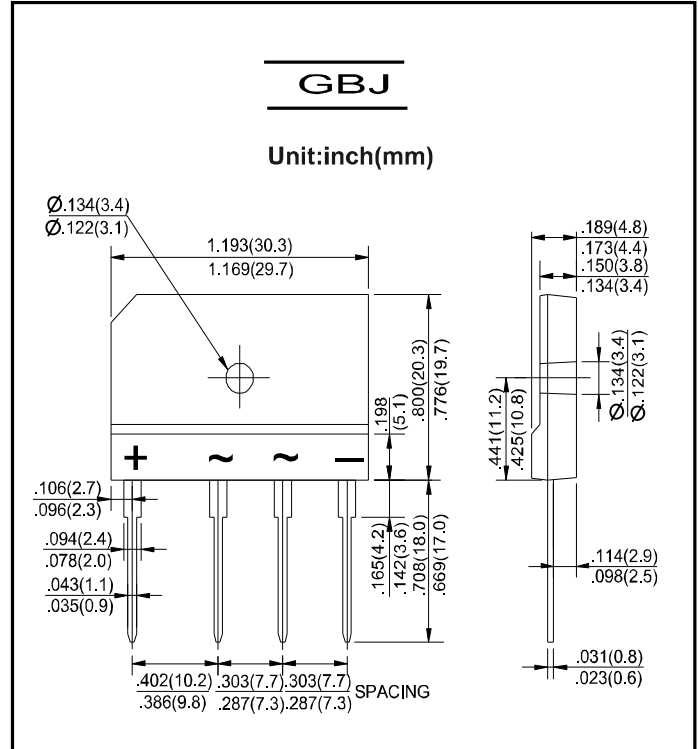
GLASS PASSIVATED BRIDGE RECTIFIERS

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	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)	6.0 2.8						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150						A
Maximum forward Voltage at 3.0A 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						uA
I ² t Rating for fusing (t < 8.3ms)	I ² t	93						A ² S
Typical Junction Capacitance per element (Note 1)	C _J	55						pF
Typical Thermal Resistance (Note 2)	R _{θJC}	2.5						°C/W
Operating Temperature Range	T _J	-55 to +150						°C
Storage Temperature Range	T _{STG}	-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.

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FIG.1-FORWARD CURRENT DERATING CURVE

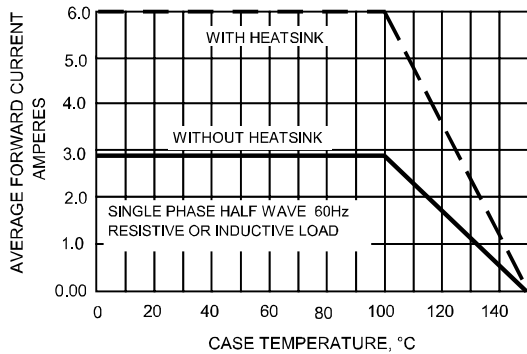


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

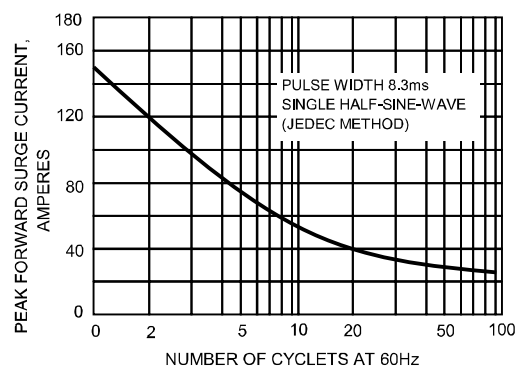


FIG.3-TYPICAL JUNCTION CAPACITANCE

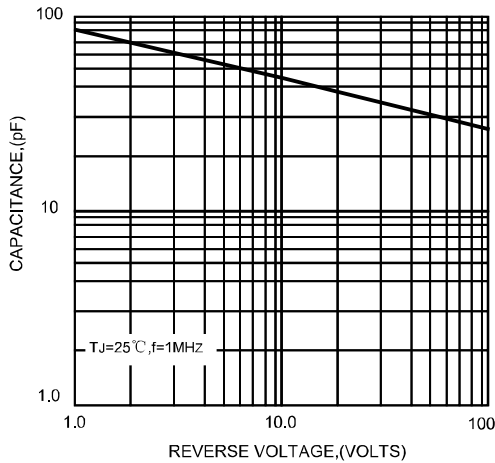


FIG.4-TYPICAL FORWARD CHARACTERISTICS

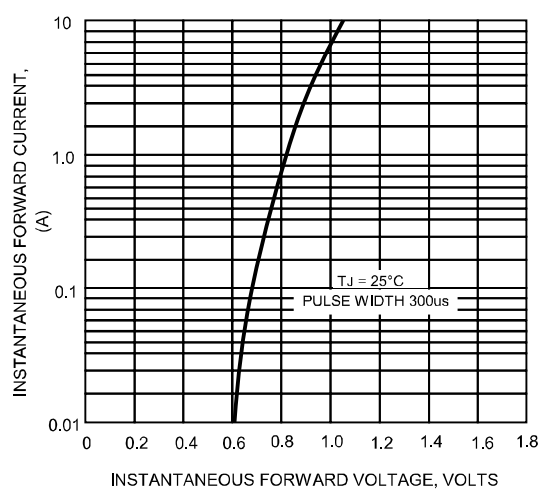
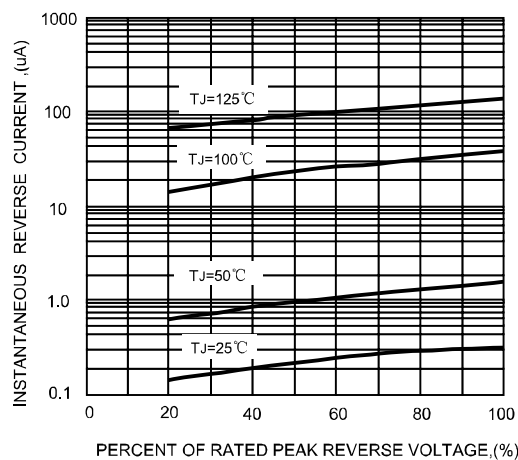


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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