

**GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **400 to 1000** Volts  
FORWARD CURRENT - **25** Amperes

**FEATURES**

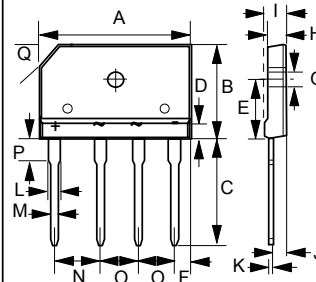
- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0
- UL Recognition File # E95060

**ESD Capability:**

**MECHANICAL DATA**

- Polarity : Symbols molded on body
- Weight : 0.23 ounces, 6.6 grams
- Mounting position : Any

**GBJ**



GBJ		
DIM.	MIN.	MAX.
A	29.70	30.30
B	19.70	20.30
C	17.0	18.0
D	4.70	4.90
E	10.80	11.20
F	2.30	2.70
G	3.10 $\varnothing$	3.40 $\varnothing$
H	3.40	3.80
I	4.40	4.80
J	2.50	2.90
K	0.60	0.80
L	2.00	2.40
M	0.90	1.10
N	9.80	10.20
O	7.30	7.70
P	3.80	4.20
Q	(3.0) x 45°	
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

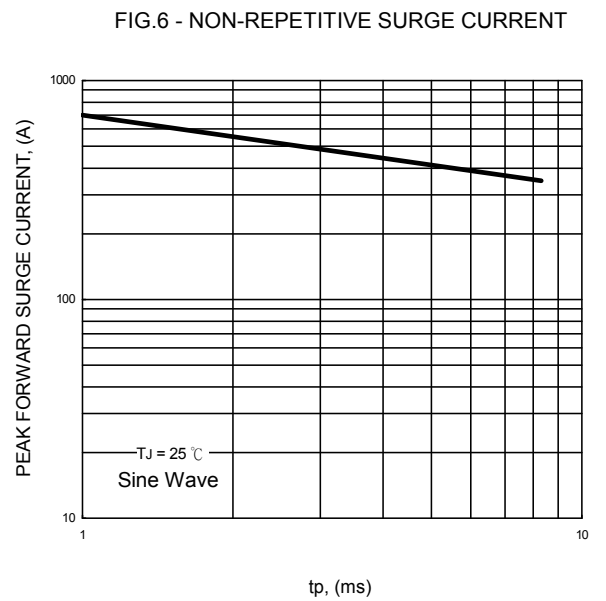
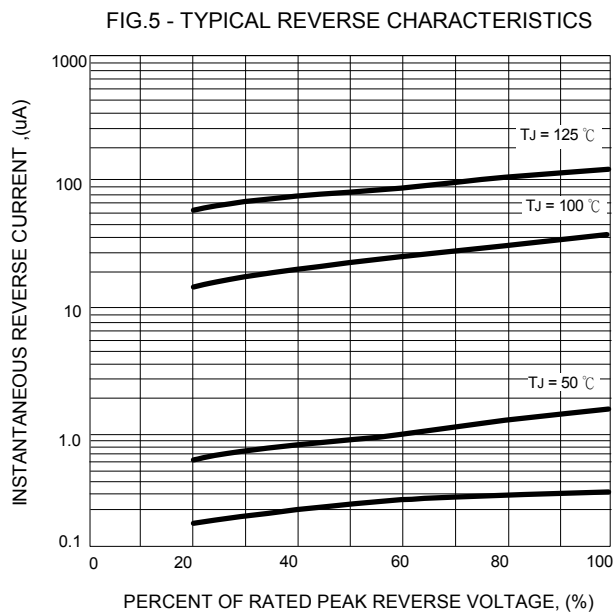
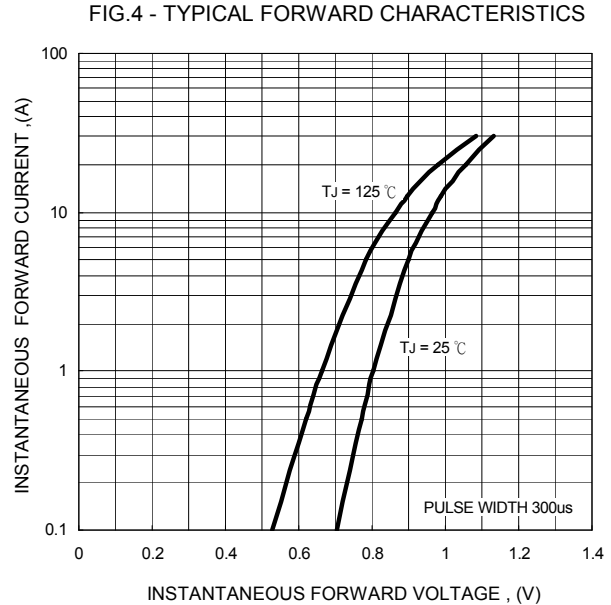
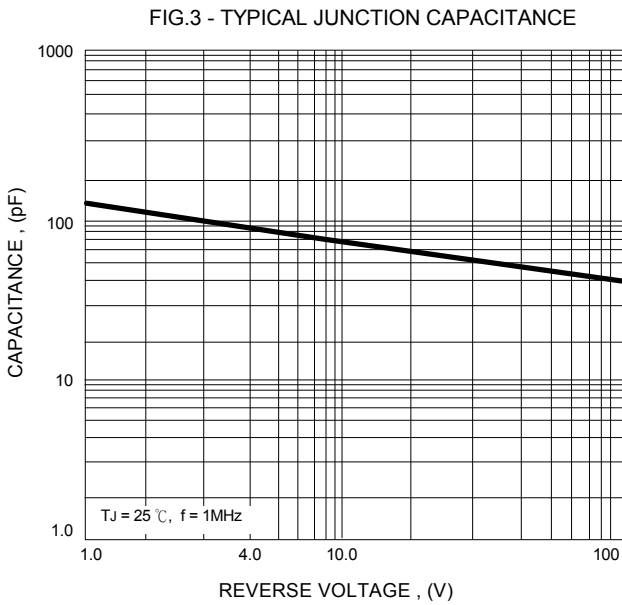
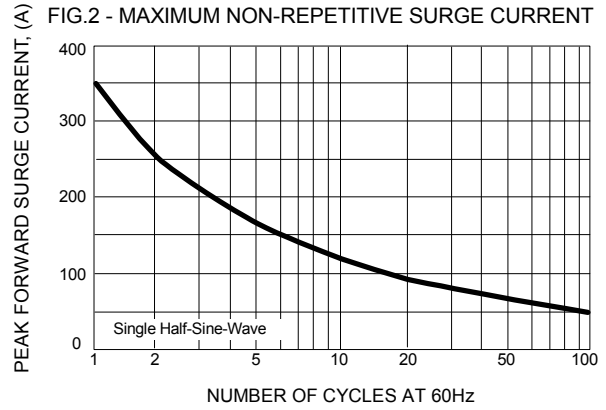
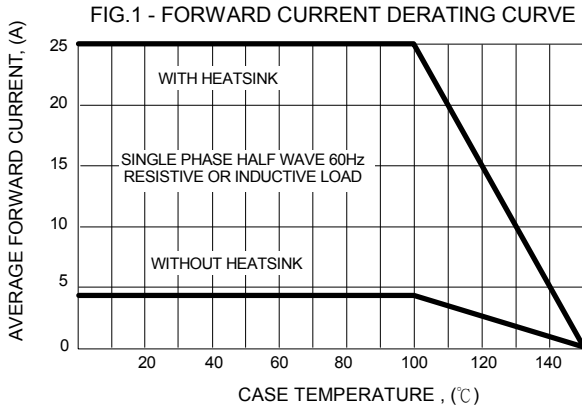
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	400	600	800	1000	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T <sub>c</sub> =100°C (without heatsink)	I <sub>(AV)</sub>	25 4.2				A
Peak Forward Surge Current single half sine-wave@T <sub>J</sub> =25 °C @8.3ms @1.0ms	I <sub>FSM</sub>	350 700				A
Maximum forward Voltage at 12.5A DC	V <sub>F</sub>	1.05				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25 °C @T <sub>J</sub> =125 °C	I <sub>R</sub>	10 500				uA
I <sup>2</sup> t Rating for fusing (t = 8.3ms)	I <sup>2</sup> t	510				A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>	85				pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	1.0				°C/W
Mounting Torque (Recommended torque: 0.5 N.m)	TOR	0.8				N.m
Operating Temperature Range	T <sub>J</sub>	-55 to +150				°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150				°C

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 250mm x 250mm x 20mm Aluminum Plate Heatsink.

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