

### GBJ2501 THRU GBJ2510

REVERSE VOLTAGE - **100 to 1000** Volts  
FORWARD CURRENT - **25** Amperes

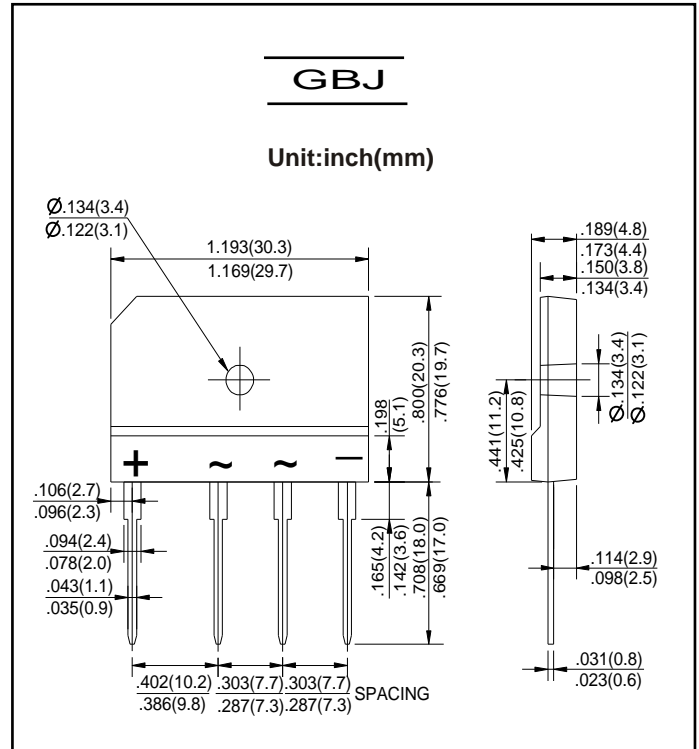
#### GLASS PASSIVATED BRIDGE RECTIFIERS

#### 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

#### 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 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	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>	25.0 4.2						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	300						A
Maximum forward Voltage at 12.5A DC	V <sub>F</sub>	1.0						V
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 500						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
Dielectric strength @ terminals to case, AC 1 minute	V <sub>dis</sub>	2.5						KV
Mounting torque @ recommend torque: 5kg • cm	Tor	8.0						kg • cm
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.



# WEET Technology Company Limited

## Single Phase Bridge Rectifiers

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FIG.1-FORWARD CURRENT DERATING CURVE

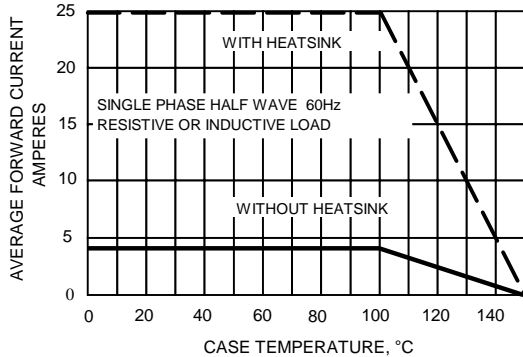


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

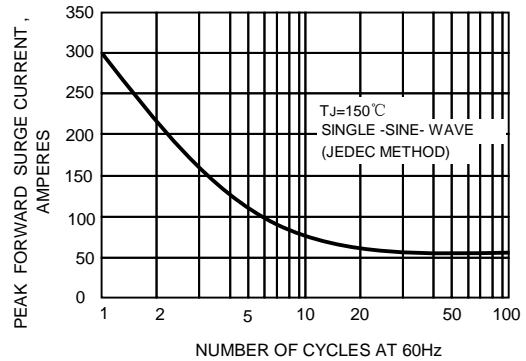


FIG.3-TYPICAL JUNCTION CAPACITANCE

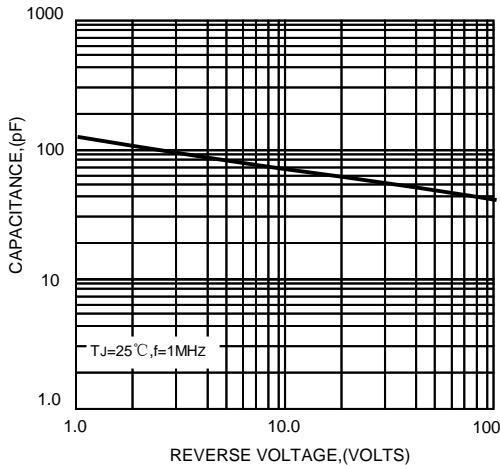


FIG.4-TYPICAL FORWARD CHARACTERISTICS

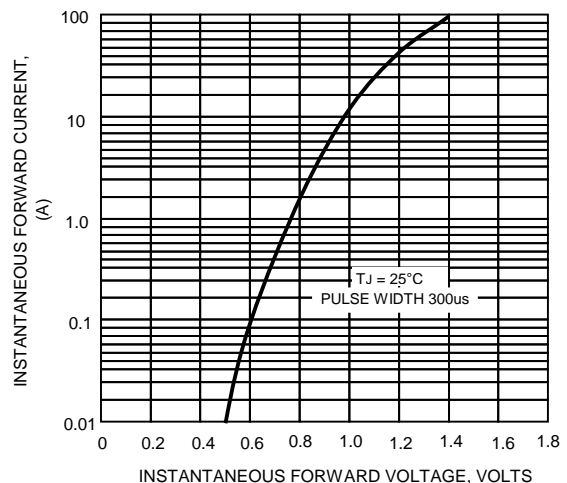
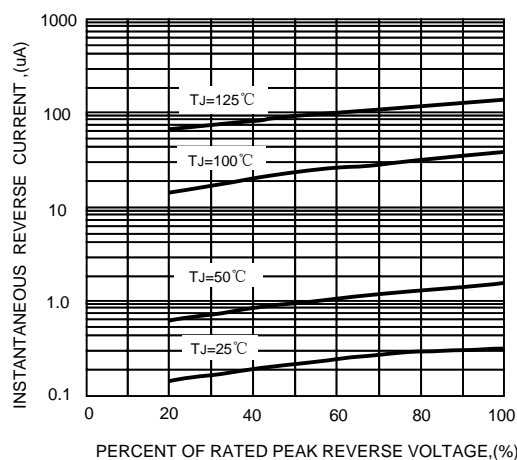


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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