

Kingtronics®

GBJ2501 THRU GBJ2510

SINGLE-PHASE 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

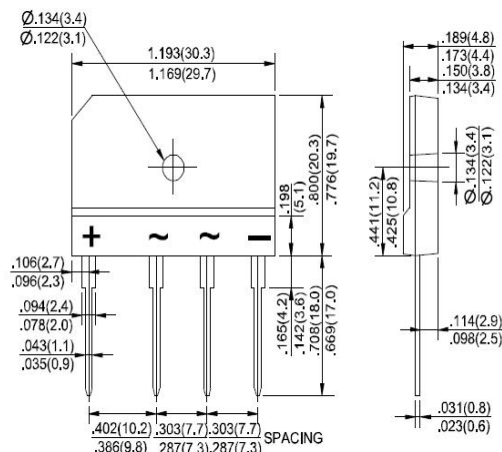
MECHANICAL DATA

- Polarity: Symbols molded on body
- Weight: 0.26 ounces, 7.0 grams
- Mounting position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified , Dimensions in inches and (millimeters)
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load derate current by 20%

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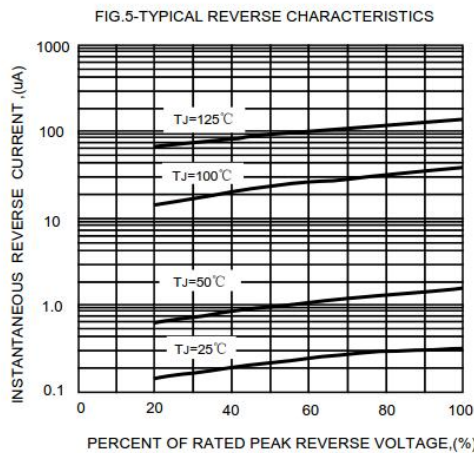
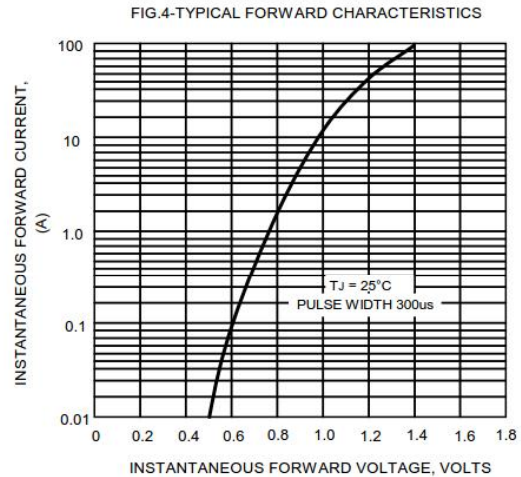
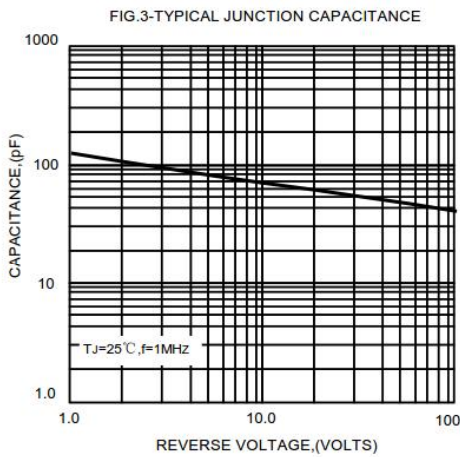
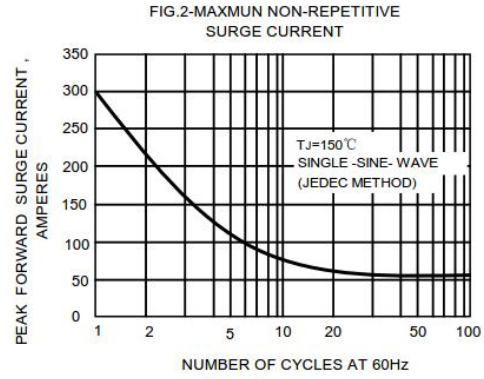
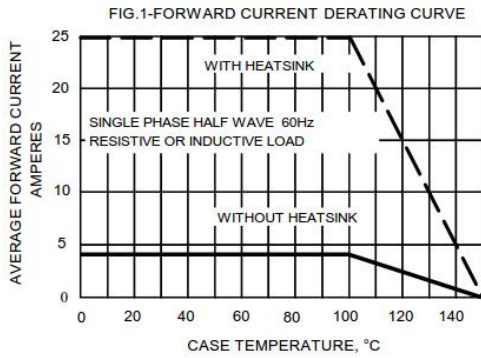
PARAMETER	SYMBOL	GBJ2501	GBJ202	GBJ2504	GBJ2506	GBJ2508	GBJ2510	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward(with heatsink Note 2) Rectified Current @ $T_C=110^{\circ}C$ (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 @ $T_J=25^{\circ}C$ at Rated DC Blocking voltage @ $T_J=125^{\circ}C$	I_R	5.0 500						μA
I^2t Rating for fusing($t<8.3ms$)	I^2t	510						A^2S
Typical Junction Capacitance per element(Note 1)	C_J	85						pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.0						$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150						$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150						$^{\circ}C$

1- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2- Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

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RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.