

Kingtronics®

GBJ3501 THRU GBJ3510

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE 100 to 1000 Volts **FORWARD CURRENT** 35 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

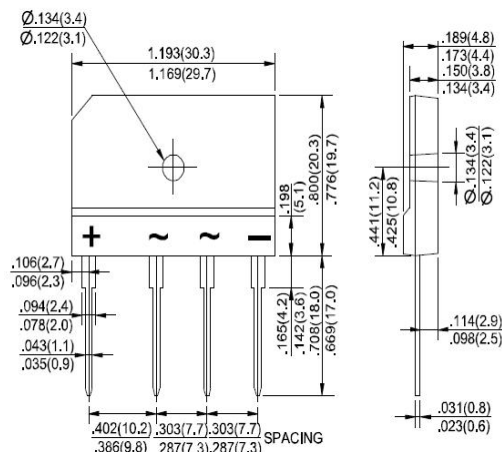
MECHANICAL DATA

- 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 , Single phase, half wave, 60Hz, resistive or inductive load. **Dimensions in inches and (millimeters)**
For capacitive load derate current by 20%

GBJ



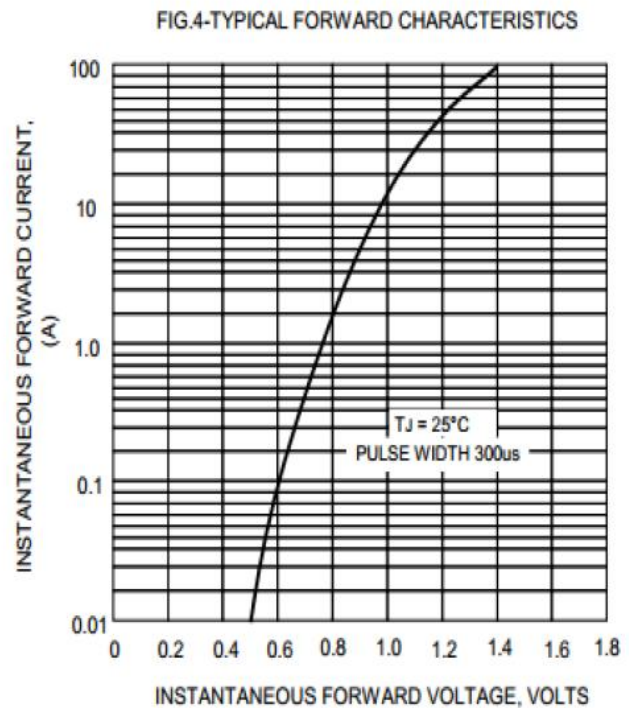
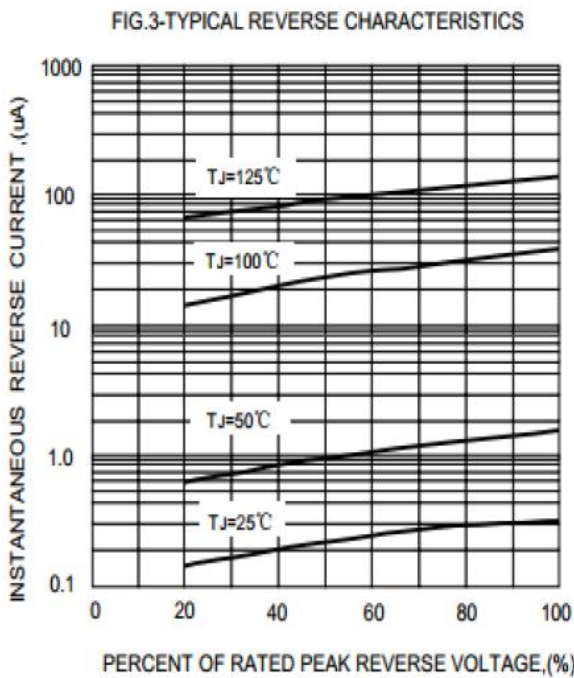
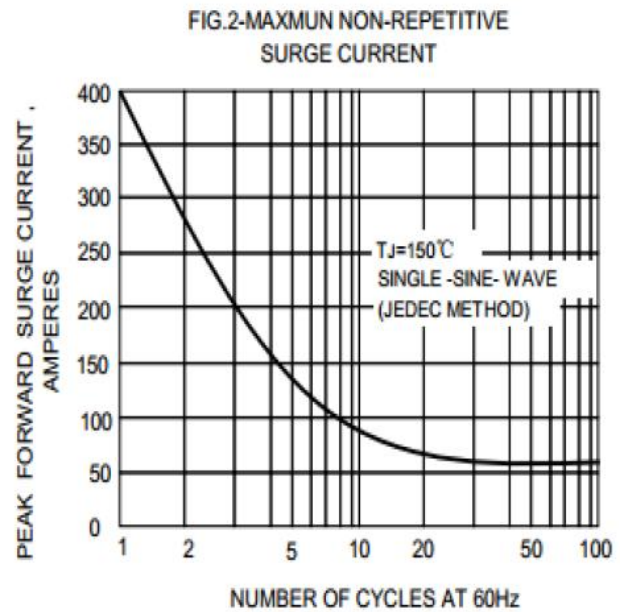
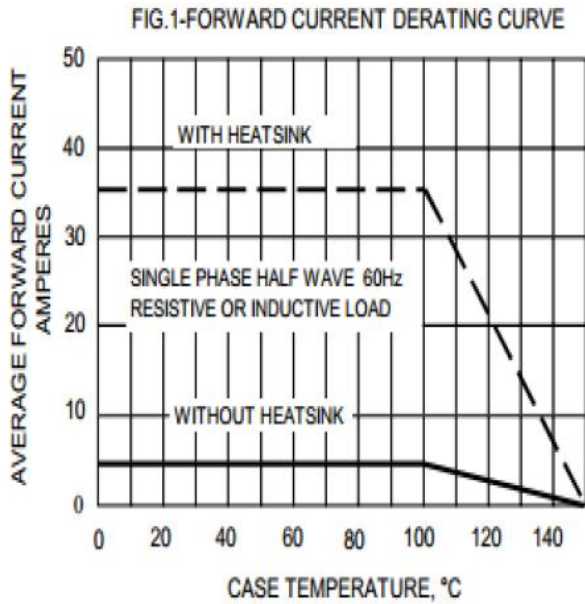
PARAMETER	SYMBOL	GBJ35005	GBJ3501	GBJ3502	GBJ3504	GBJ3506	GBJ3508	GBJ3510	UNIT	
Maximum Recurrent Peak Reverse	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward(with heatsink Note 2)Rectified Current @ $TC=110^{\circ}C$ (without heatsink)	$I_{(AV)}$					35.0 5.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}					400				A
Maximum forward Voltage at 17.5A DC	V_F					1.1				V
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ at Rated DC Blocking voltage @ $T_J=125^{\circ}C$	I_R					10.0 500				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)	$R_{\theta JC}$					0.6				$^{\circ}C/W$
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 300mm x 300mm x 1.6mm Cu Plate Heatsink.

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RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

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