

Kingtronics®

GBJ15005 THRU GBJ1510

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 15 Ampere

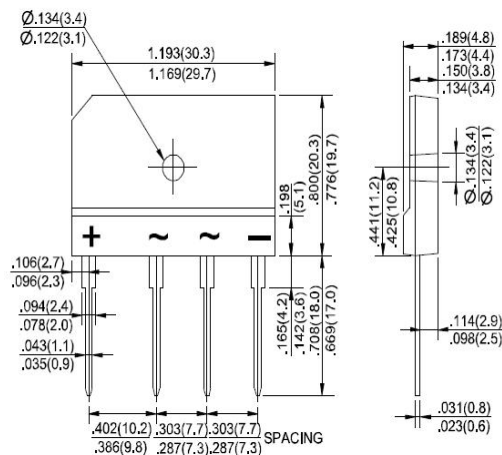
FEATURES

- 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

GBJ



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%

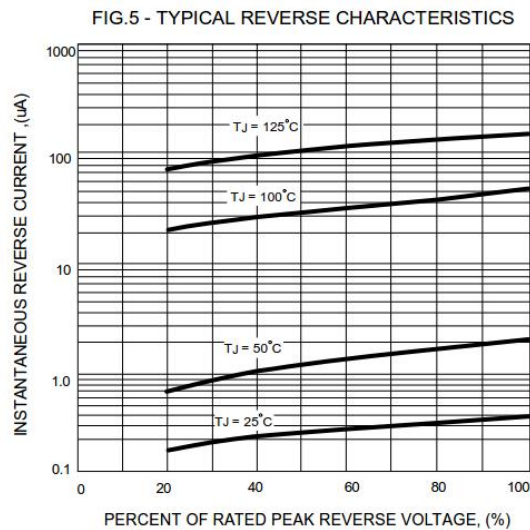
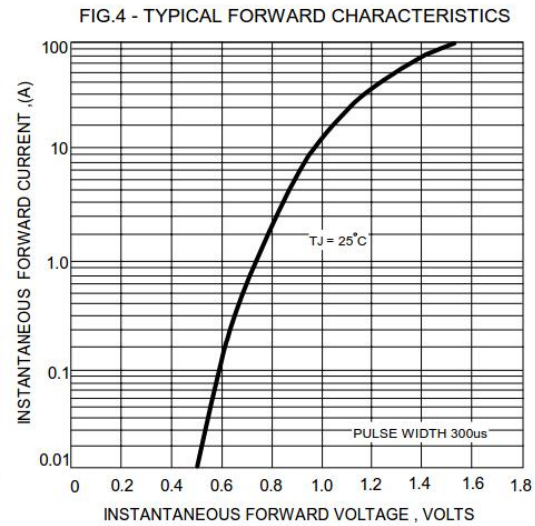
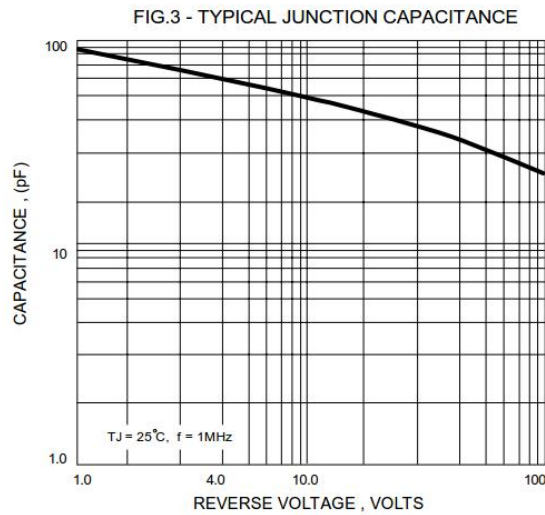
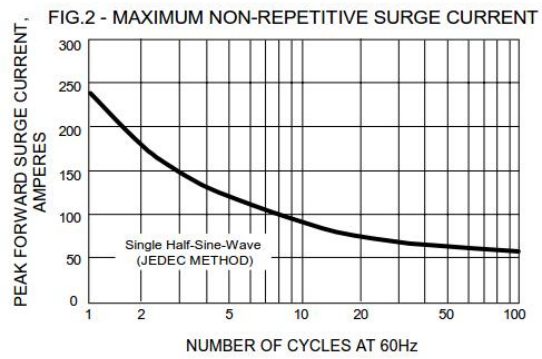
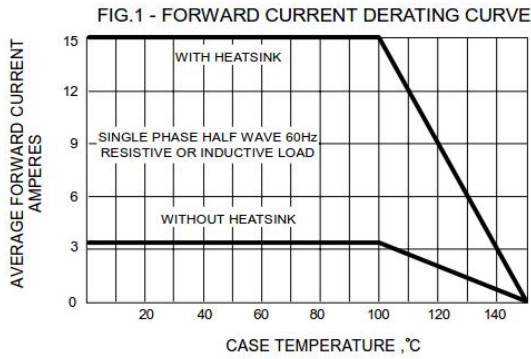
PARAMETER	SYMBOL	GBJ15005	GBJ1501	GBJ1502	GBJ1504	GBJ1506	GBJ1508	GBJ1510	UNIT	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward(with heatsink Note 2) Rectified Current @ $T_C=110^{\circ}C$ (without heatsink)	$I_{(AV)}$					15.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}					240				A
Maximum forward Voltage at 7.5A DC	V_F					1.05				V
Maximum DC Reverse Current at Rated DC Blocking voltage @ $T_J=25^{\circ}C$ @ $T_J=125^{\circ}C$	I_R					5.0				μA
I^2t Rating for fusing($t<8.3ms$)	I^2t					240				A^2S
Typical Junction Capacitance per element(Note 1)	C_J					60				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$					0.8				$^{\circ}C/W$
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.

Kingtronics® International Company

RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.