

Kingtronics®

GBJ601 THRU GBJ610

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER
REVERSE VOLTAGE 100 to 1000 Volts FORWARD CURRENT 6.0 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

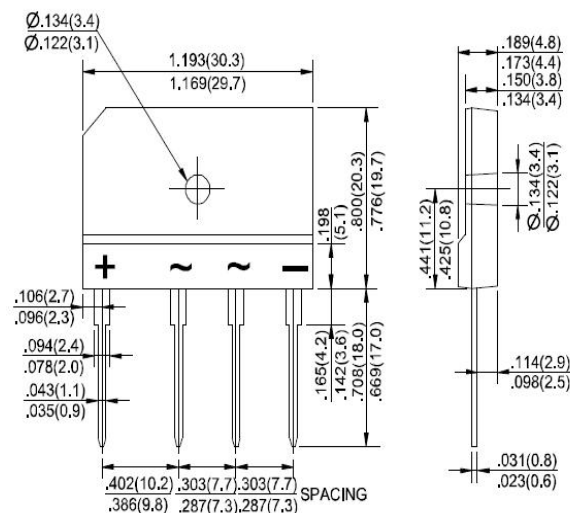
MECHANICAL DATA

- 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.
 For capacitive load derate current by 20%

GBJ



Dimensions in inches and (millimeters)

PARAMETER	SYMBOL	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610	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)	$I_{(AV)}$	6.0						2.8	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	180							A
Maximum forward Voltage at 3.0A 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	120							A^2S
Typical Junction Capacitance per element(Note 1)	C_J	55							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.5							$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$

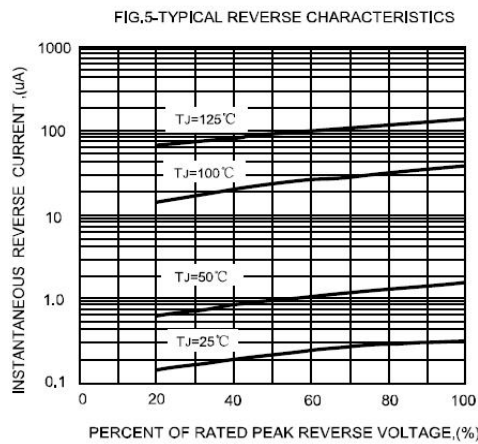
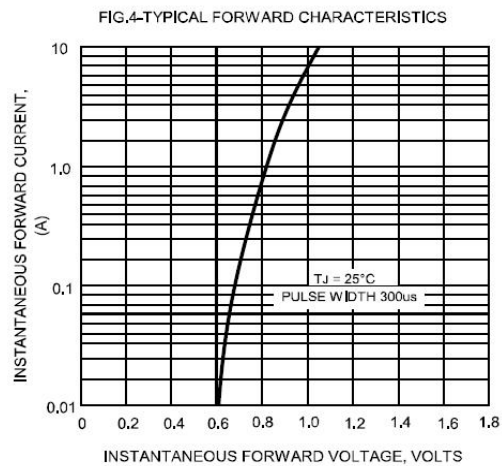
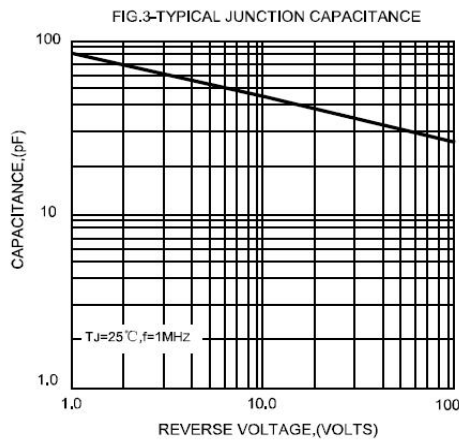
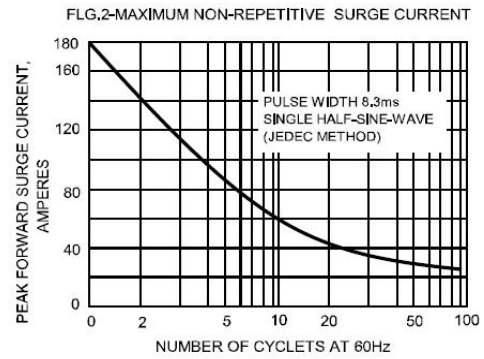
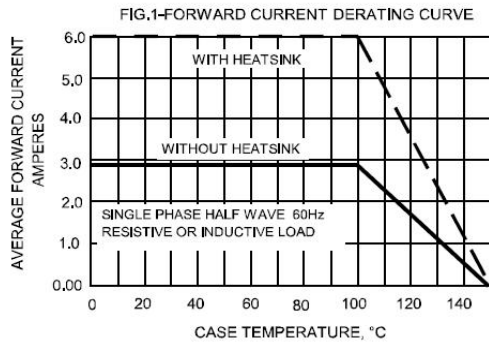
1- Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.
 2- Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

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RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

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