Kingtronics®

GBJ20005 THRU GBJ2010

SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 20 Ampere

FEATURES

GBJ

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

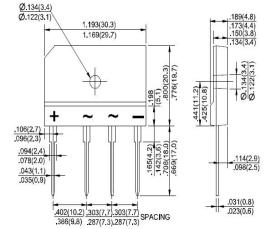
The plastic material has UL flammability classification 94V-0

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℃ 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	GBJ20005	GBJ2001	GBJ2002	GBJ2004	GBJ2006	GBJ2008	GBJ2010	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 @ T _C =110°C (without	I _(AV)	20.0 3.5							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	Ігѕм	260							А
Maximum forward Voltage at 10A DC	V _F	1.05							V
	I R	5.0 500							uA
I ² t Rating for fusing(t<8.3ms)	l ² t	240							A ² S
Typical Junction Capacitance per element(Note 1)	CJ	60							pF
Typical Thermal Resistance (Note 2)	Rejc	0.8							°CW
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

- 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

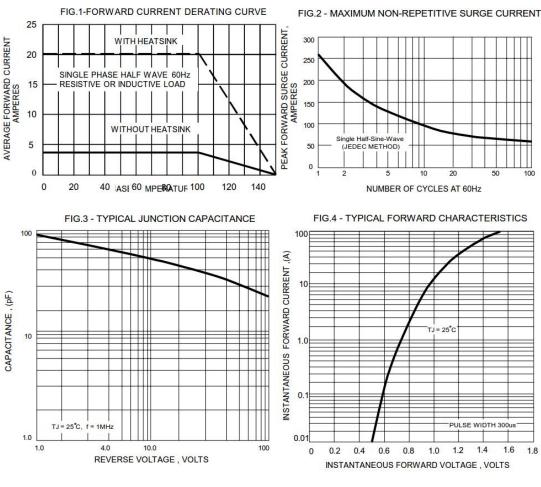


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

1000

TJ = 125°C

TJ = 100°C

TJ = 50°C

TJ = 25°C

0.1

0 20 40 60 80 100

PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

Note: Specifications are subject to change without notice.

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