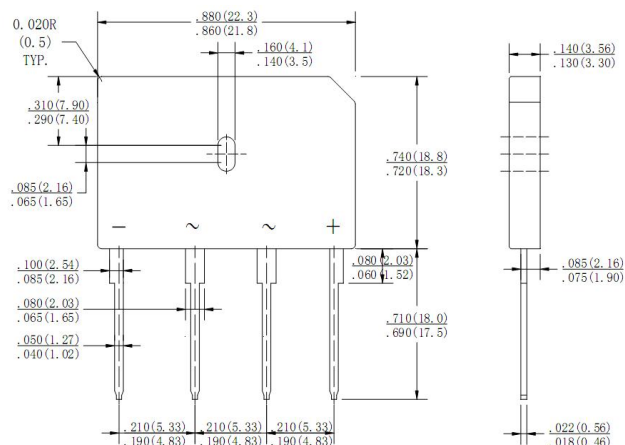


Kingtronics®**GBU4005 THRU
GBU410****Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers****Voltage Range 50 to 1000 Volts Current 4.0 Amperes****FEATURES**

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction technique results in inexpensive product
- ◆ High temperature soldering guaranteed:
250°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension
- ◆ UL Recognized File number: E347214

MECHANICAL DATA

- ◆ Case: Molded plastic
- ◆ Lead: solder plated
- ◆ Polarity: As marked

Package: GBU**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

		GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ Tc = 100°C	I(AV)				4.0				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM				150				A
Maximum Instantaneous Forward Voltage @ 2.0A @ 4.0A	VF				1.0 1.1				V
Maximum DC Reverse Current @ TA=25°C rated DC blocking voltage per leg TA = 125°C	IR				50 500				μ A
Typical Thermal Resistance (Note1) (Note2)	RθJA RθJL				20 4.0				°C/W
Operating Temperature Range	TJ				-55 to +150				°C
Storage Temperature Range	TSTG				-55 to +150				°C

NOTE: 1. Mounted on P.C.B. with 0.5x0.5"(12x12mm) Copper Pads,0.375"(9.5mm)Lead Length.

2. Mounted on Al. Plate of 2.0x3.0x0.25"Al-Plate Heatsink.

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Kingtronics®

GBU4005 THRU GBU410

RATING AND CHARACTERISTIC CURVES GBU4005 THRU GBU410

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMNT

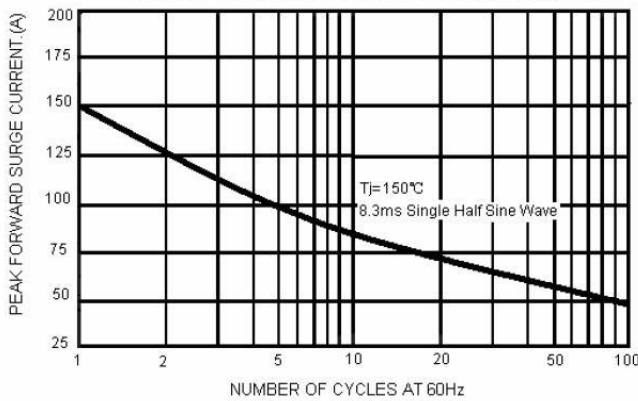


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

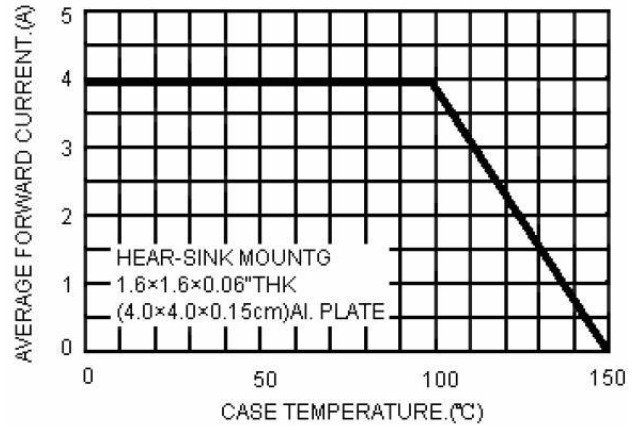


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

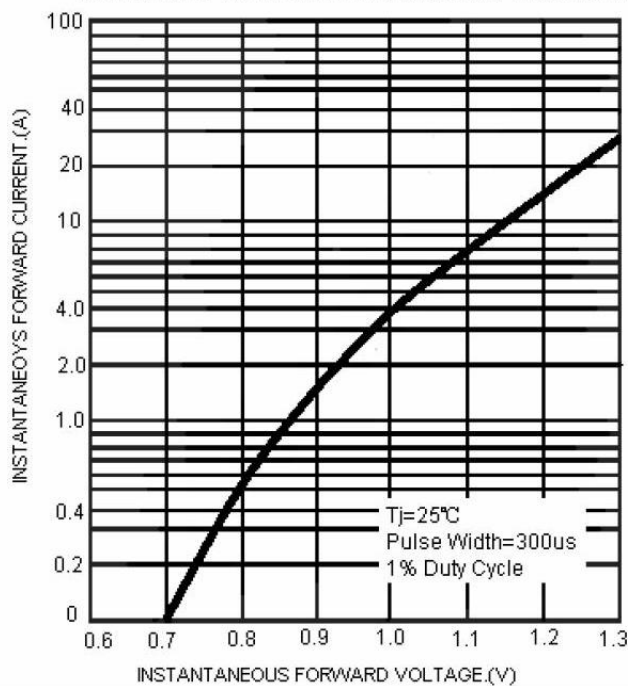
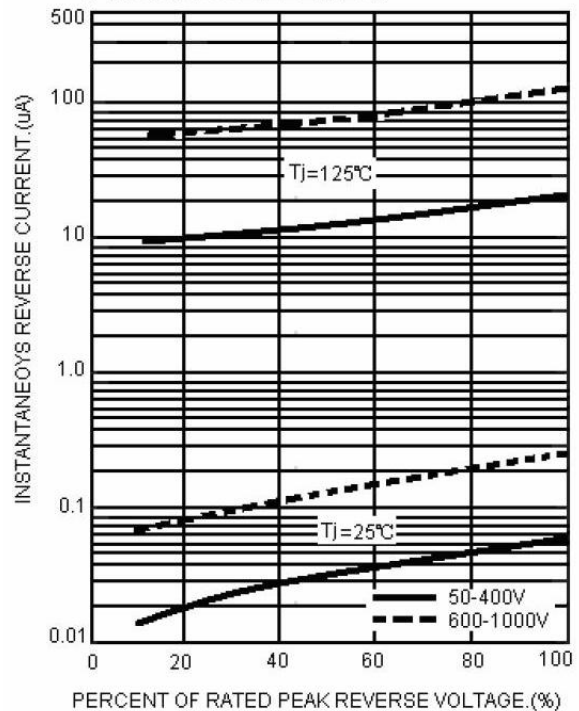


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.

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