# GBU6005 THRU GBU610

.154(3.9) .146(3.7)

.132(3.35)

SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 6.0 Ampere

**GBU** 

.752(19.1)

720(18.3)

.079(2.0)

#### **FEATURES**

Rating to 1000V PRV

Ideal for printed circuit board

Reliable low cost construction utilizing molded plastic

Technique

The plastic material has UL flammability classification 94V-0

Electrically isolated base-1500 Volts

#### **MECHANICAL DATA**

Polarity: As marked on Body Weight: 0.15 ounces, 4.0 grams Mounting position: Any				.720(18.: .680(17.: .04			.085(2.16) .118 .098( .080(2.03) .065(1.65)	(3.0)	
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless Single phase, half wave, 60Hz, resistive or in For capacitive load derate current by 20%	s otherwis		<sup>ied,</sup> Di	mensio	210 .190 (5.3) (4.8)	( - , ( - ,	.018	illimete	ers
PARAMETER	SYMBOL	GBU 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	U
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	

PARAMETER	SYMBOL	GBU 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current, @ Tc=100°C (without heatsink)	I <sub>(AV)</sub>	6.0							А
Peak Forward Surge Current 8.3ms single half	2.8								
sine-wave superimposed on rated load	IFSM	175						А	
Maximum Forward Voltage at 3.0A DC	$V_{F}$	1.0						V	
Maximum DC Reverse Current @ T₃ = 25°C		5.0 500							
at Rated DC blocking voltage	<b>I</b> R								
I <sup>2</sup> t Rating for fusing (t < 8.3ms)	l <sup>2</sup> t	127						A <sup>2</sup> S	
Typical Junction Capacitance per element (Note 1)	CJ	45						pF	
Typical Thermal Resistance (Note 2)	Rejc	2.2						°C/W	
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 75mm x 75mm x 1.6mm Cu Plate Heatsink.

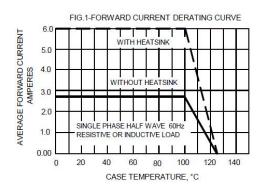
### Kingtronics® International Company

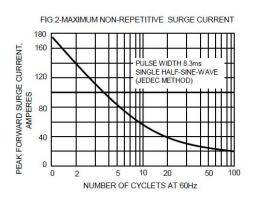
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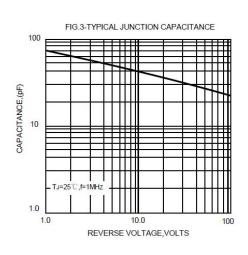
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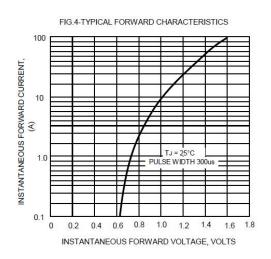
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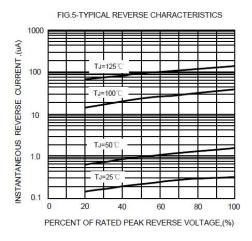
#### RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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