Kingtronics®

GBU8005 THRU GBU810

136(3.45)

.132(3.35)

.100(2.54) .085(2.16) .118(3.0)

.022(.56)

.018(.46)

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts

FORWARD CURRENT 8.0 Ampere

752(19.1)

720(18.3)

.079(2.0)

.720(18.29)

.680(17.27)

.874(22.2) .860(21.8)

.154(3.9)

GBU

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: Symbols molded on body Weight: 0.15 ounces, 4.0 grams

Mounting position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified , Dimensions in inches and (millimeters) Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

PARAMETER	SYMBOL	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	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, @ Tc=100°C (without heatsink)	I _(AV)	8.0							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Iгsм	200							А
Maximum Forward Voltage at 4.0A DC	V_{F}	1.0							V
Maximum DC Reverse Current @ T _J = 25℃	l _R	5.0 500							uA
at Rated DC blocking voltage @ $T_J = 125^{\circ}C$	IK								
I ² t Rating for fusing (t < 8.3ms)	l ² t	166							A^2S
Typical Junction Capacitance per element (Note	C _J 60							pF	
_1)									
Typical Thermal Resistance (Note 2)	Rejc	2.2							℃W
Operating Temperature Range	T_J	-55 to +150							$^{\circ}\!\mathbb{C}$
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 100mm x 100mm x 1.6mm Cu Plate Heatsink.

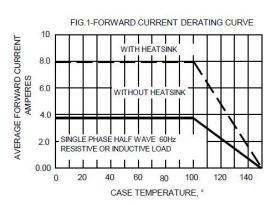
Kingtronics® International Company

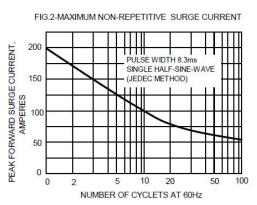
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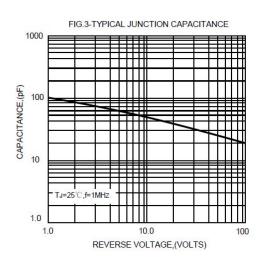
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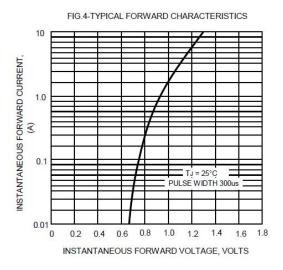
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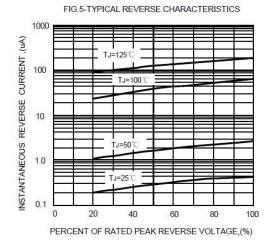
RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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