

# Kingtronics®

# GBU401 THRU GBU410

**SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS**  
**VOLTAGE RANGE 100 to 1000 Volts    CURRENT 4.0 Ampere**

## 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.

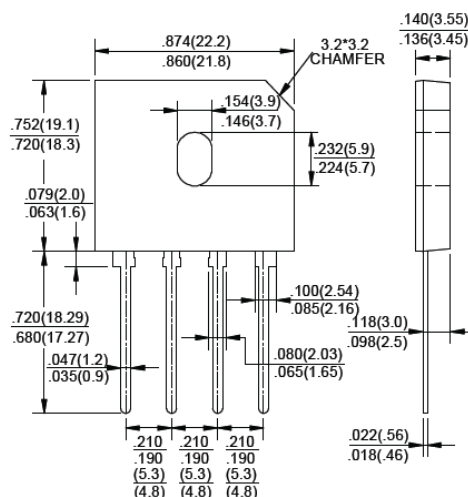
## MECHANICAL DATA

- Polarity: As marked on Body.
- Weight: 0.15 ounces, 4.0 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%**

## GBU



**Dimensions in inches and (millimeters)**

PARAMETER	SYMBOL	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	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 @ $T_C=100^\circ C$ (without heatsink)	$I_{(AV)}$	4.0 2.4						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150						A
Maximum forward Voltage at 2.0A 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						$\mu A$
$I^2t$ Rating for fusing ( $t < 8.3ms$ )	$I^2t$	93						$A^2S$
Typical Junction Capacitance per element (Note 1)	$C_J$	40						pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	3.0						$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +150						$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150						$^\circ C$

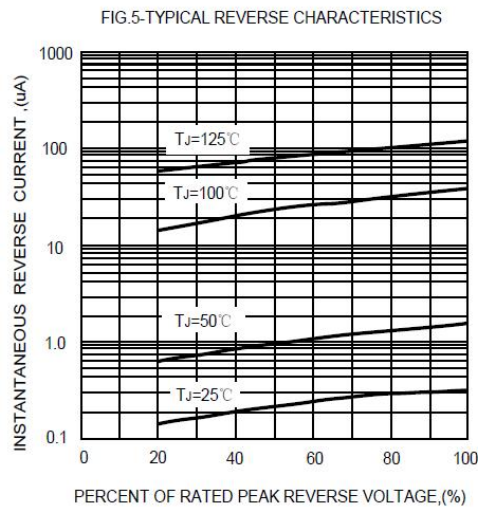
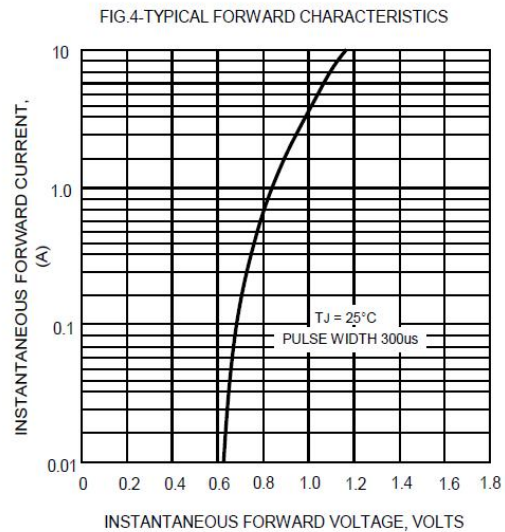
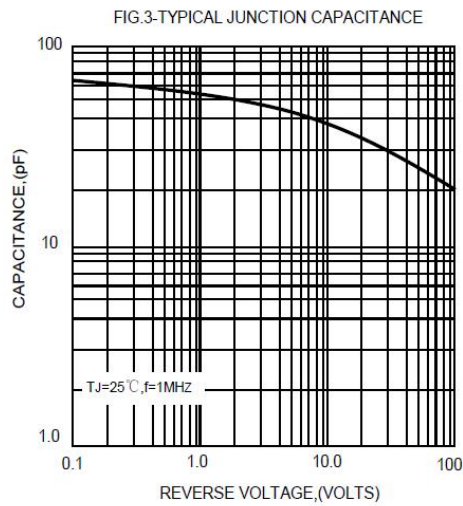
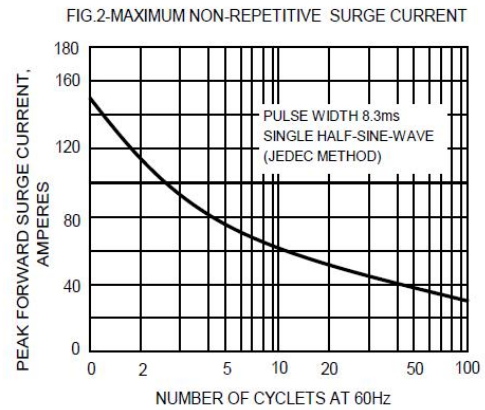
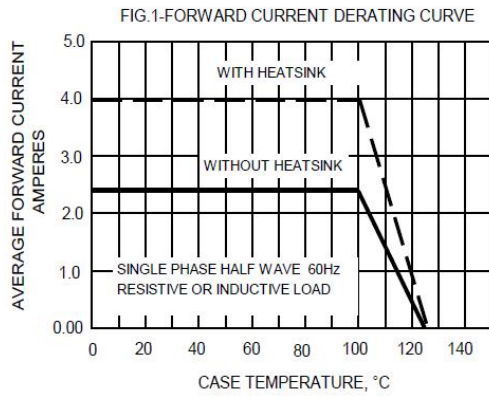
1- Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.  
 2- Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

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## RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

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