

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.

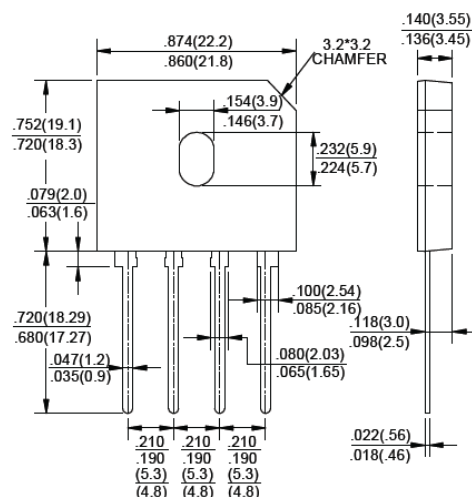
MECHANICAL DATA

- 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 @ $T_C=100^\circ\text{C}$ (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 @ $T_J=25^\circ\text{C}$ at Rated DC Blocking voltage @ $T_J=125^\circ\text{C}$	I_R	5.0 500						μA
I^2t Rating for fusing ($t < 8.3\text{ms}$)	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						$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150						$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150						$^\circ\text{C}$

1- Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.

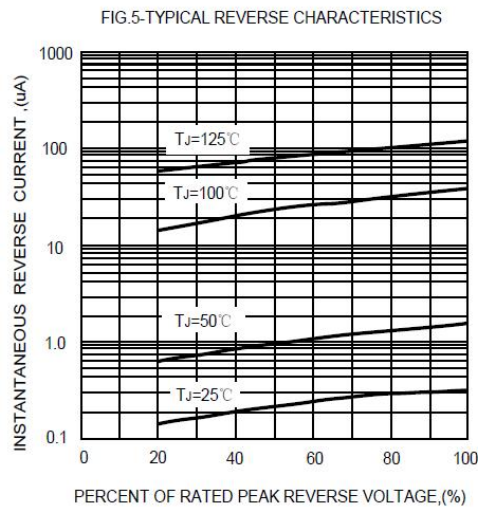
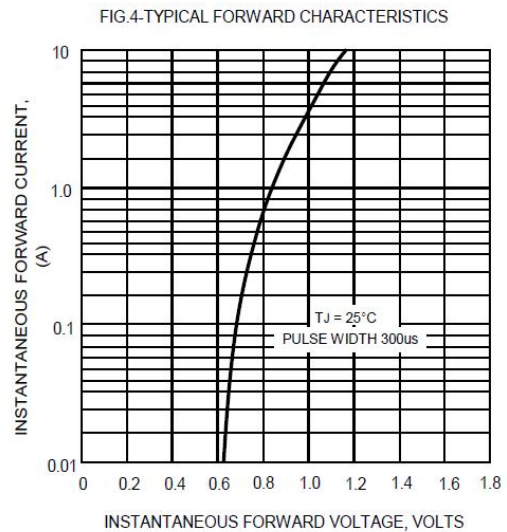
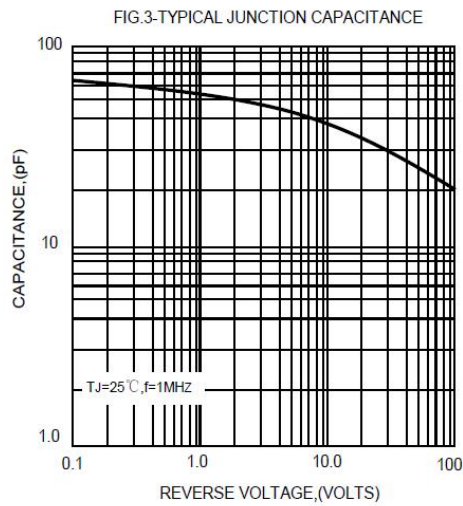
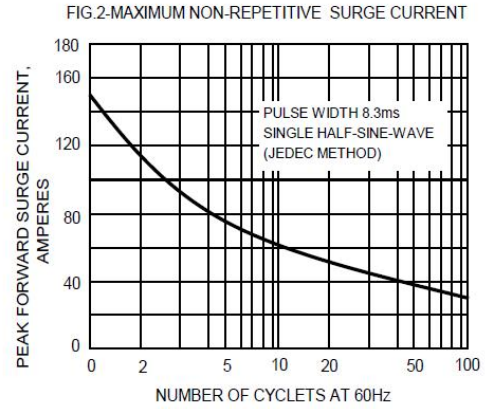
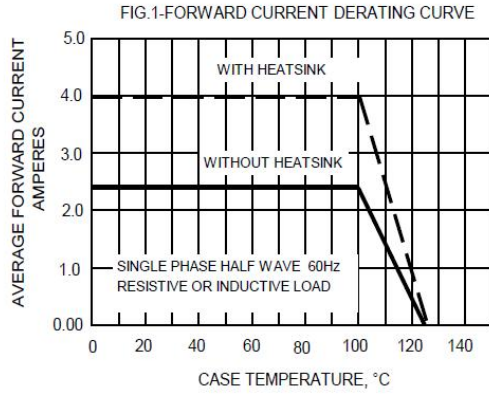
2- Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

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RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

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