

Kingtronics®**GBPC15005 THRU
GBPC1510****SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS****REVERSE VOLTAGE 50 to 1000 Volts****FORWARD CURRENT 15 Ampere****FEATURES**

- Rating to 1000V PRV
- High efficiency
- Glass passivated chip junction
- Electrically isolated metal case for maximum heat dissipation
- The plastic material has UL flammability classification 94V-0
- Electrically isolated base-2500 Volts

MECHANICAL DATA

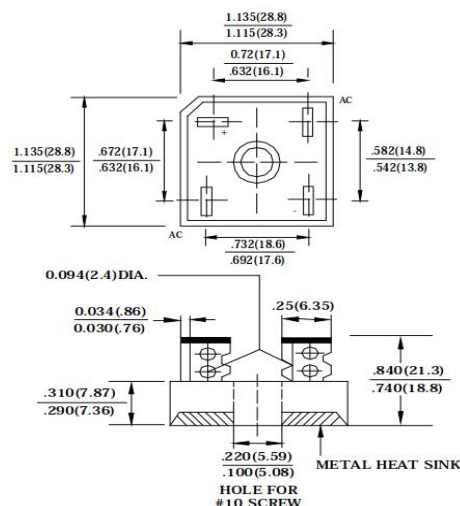
- Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation
- Polarity: As marked on Body
- Mounting : Hole for # 10 screw
- Weight : 0.55 ounces , 15.6 grams (terminal)

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%

Dimensions in inches and (millimeters)



PARAMETER	SYMBOL	GBPC 15005	GBPC 1501	GBPC 1502	GBPC 1504	GBPC 1506	GBPC 1508	GBPC 1510	UNIT	
Maximum Recurrent Peak Reverse	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 @ $T_C=110^\circ\text{C}$ (without	$I_{(AV)}$	15.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	300								A
Maximum forward Voltage at 7.5A DC	V_F	1.1								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	374								A^2S
Typical Junction Capacitance per element(Note 1)	C_J	300								pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.9								$^\circ\text{C}/\text{W}$
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 1.0MHz and applied reverse voltage of 4.0V DC.

2- Measured at non-repetitive, for greater than 1ms and less than 8.3ms.

3-Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

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Website: www.kingtronics.com

Email: info@kingtronics.com

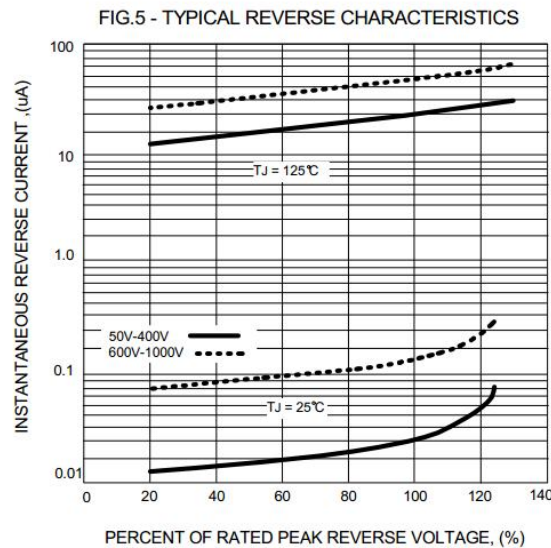
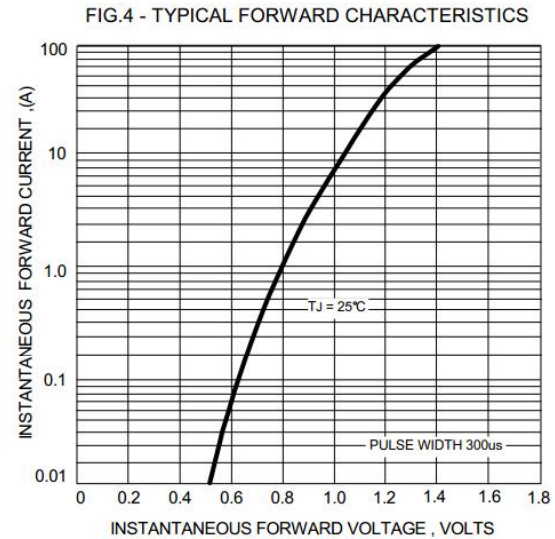
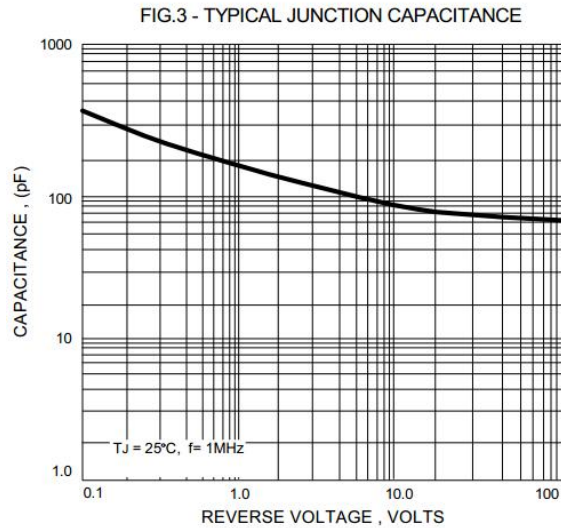
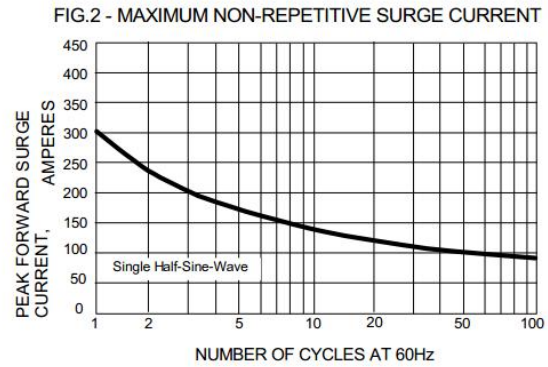
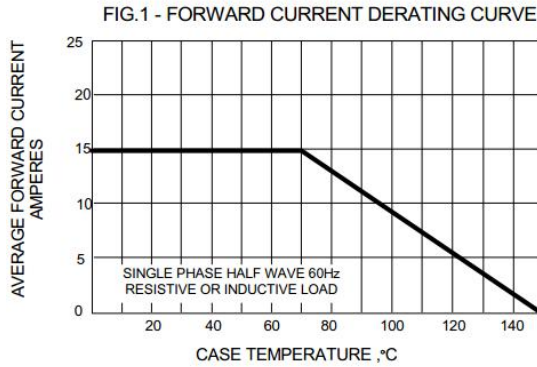
Tel: (852) 8106 7033

Fax: (852) 8106 7099

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RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

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