Kingtronics®

GBPC25005 THRU GBPC2510

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

GBPC

REVERSE VOLTAGE 50 to 1000 Volts **FORWARD CURRENT** 25 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)

1.135(28.8) 1.115(28.3) .470(11.0) .430(10.9) .AC 1.135(28.8) 1.115(28.3) .732(18.6) .592(17.6) .732(18.6) .692 17. .038(97) .220(5.99) .200(5.08) METAL HEAT SINK HOLE FOR

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave, 60Hz, resistive or inductive load.

Dimensions in inches and (millimeters)

For capacitive load derate current by 20%

PARAMETER	SYMBOL	GBPC 25005	GBPC 2501	GBPC 2502	GBPC 2504	GBPC 2506	GBPC 2508	GBPC 2510	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 @ $T_c=110^{\circ}$ C (without heatsink)	I _(AV)	25.0							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ігѕм	300							А
Maximum forward Voltage at 12.5A DC	V_{F}	1.1							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							uA
I ² t Rating for fusing(t<8.3ms)	l ² t	375							A^2S
Typical Junction Capacitance per element(Note 1)	CJ	300							pF
Typical Thermal Resistance (Note 2)	Rелс	1.9							℃W
Operating Temperature Range	T_J	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

- 1- Measured at non-repetitive, for greater than 1ms and less than 8.3ms.
- 2- Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.
- 3-Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

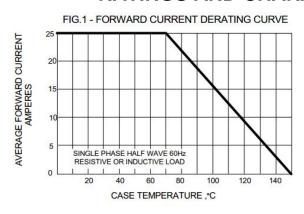
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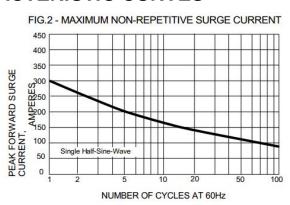
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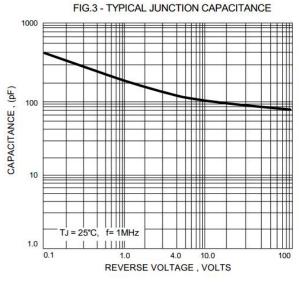
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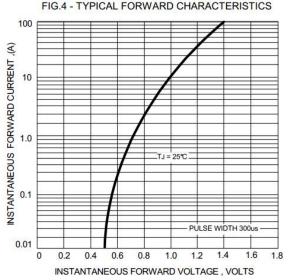
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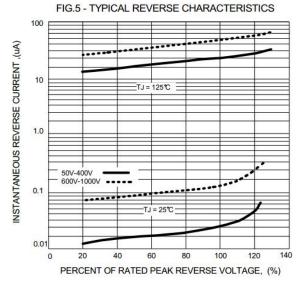
RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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