Kingtronics®

GBPC25005W THRU GBPC2510W

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts

FORWARD CURRENT 25 Ampere

GBPC-W

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: 0.47 ounces, 13.4 grams (wire)

1.135(28.8) 1.115(28.3) .470(11.0) .430(10.9) .430(10.9) .42(1.07) .592(17.6) .592(17.6) .692 17. .038(.97) .0310(7.87) .0290(7.36) .042(1.07)

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)

0.200(5.08)

METAL HEAT SINK

PARAMETER	SYMBOL	GBPC 25005W	GBPC 2501W	GBPC 2502W	GBPC 2504W	GBPC 2506W	GBPC 2508W	GBPC 2510W	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℃(without heatsink)	I _(AV)	25.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	300							А
Maximum forward Voltage at 12.5A DC	V_{F}	1.1							V
Maximum DC Reverse Current @ T_J =25°C at Rated DC Blocking voltage @ T_J =125°C	I _R	5.0 500							uA
I ² t Rating for fusing(t<8.3ms)	l ² t	508							A^2S
Typical Junction Capacitance per element(Note 1)	CJ	130							pF
Typical Thermal Resistance (Note 2)	Rелс	1.9							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$ C
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}\! \mathbb{C}$

- 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.

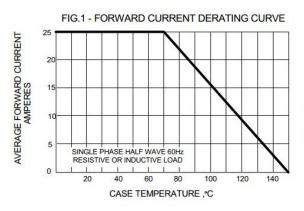
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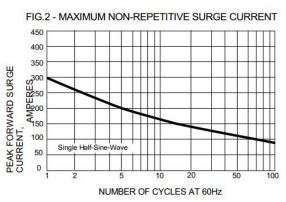
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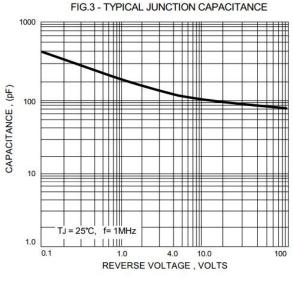
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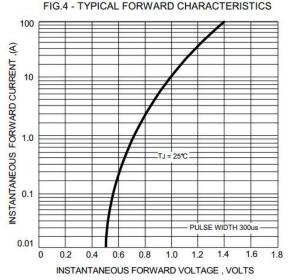
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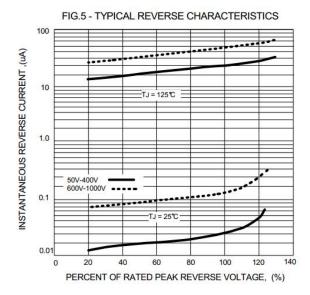
RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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