Kingtronics®

KBPC25005 THRU KBPC2510

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS **REVERSE VOLTAGE** 50 to 1000 Volts **FORWARD CURRENT** 25.0 Ampere

FEATURES

High forward surge current capability.

Low thermal resistance.

High isolation voltage from case to lugs. High temperature soldering guaranteed: 260°C/10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

Case: Matel case.

Terminal: Plated 0.25" (6.35mm) lug. Polarity: Polarity symbols marked on case.

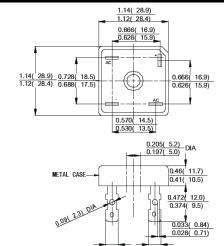
Mounting: Thru hole for #10 screw, 20 in,- lbs. Torque Max.

Weight: 1.02 ounce, 29gram.

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%

KBPC



Dimensions in inches and (millimeters)

PARAMETER		SYMBOL	KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	UNIT
Maximum Repetitive Peak Revere Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc=50°C (Note1,2)		I _(AV)	25							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігэм	300							Amps
Rating for Fusing(t<8.3ms)		I ₂ T	373							A ² s
Maximum Instantaneous Forward Voltage at12.5A		VF	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	T _A =25℃	I _R	5.0							μAmps
	T _A =125℃		0.5							mAmps
Isolation Voltage from case to lugs		V _{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 1,2)		Rejl	2.0							℃W
Operating Temperature Range		TJ	-65 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range		Tstg	-65 to +150							$^{\circ}\!\mathbb{C}$
4 Unit many untail a	- 0" - 2 F" - 4 C" H-: -1- (00044.6) \ Al . f:							•

- 1- Unit mounted on 9"x3.5"x4.6" thick (23x9x11.8mm) Al. finned plate.
- 2- Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

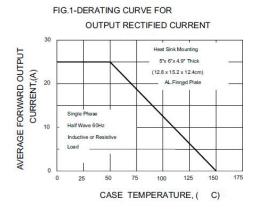
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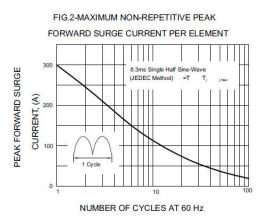
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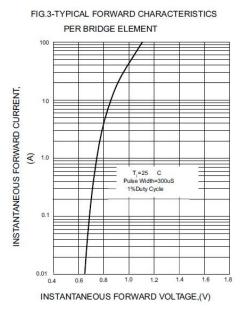
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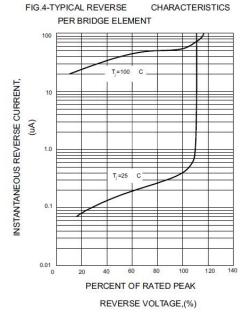
KBPC25005 THRU KBPC2510

RATINGS AND CHARACTERISTIC CURVES









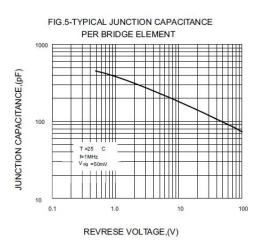
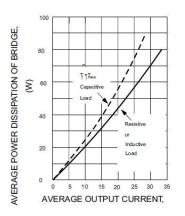


FIG.6-MAXIMUM POWER DISSIPATION



Note: Specifications are subject to change without notice.

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