Kingtronics®

KBPC25005 THRU KBPC2510

SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts

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.

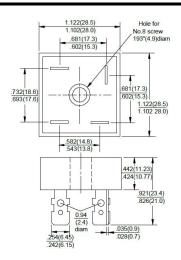
Polarity: Polarity symbols marked on case.

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

Max.

Weight: 1.02 ounce, 29gram.

KBPC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL

CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

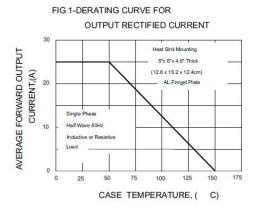
For capacitive load derate current by 20%										
		SYMBOLS	KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	UNIT
Maximum Repetitive Peak Revere Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current atTc=50°C (Note1,2)		I _(AV)	25							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	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℃	l _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)		Rejc	2.0							℃W
Operating Temperature Range		TJ	-55 to +150							$^{\circ}$
Storage Temperature Range		$T_{\scriptscriptstyle{STG}}$	-55 to +150							$^{\circ}$ C

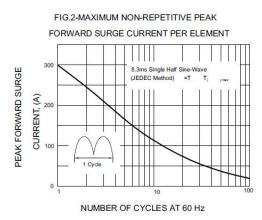
- 1- Unit mounted on 9"x3.5"x4.6" thick (23x9x11.8mm) Al. finned plate.
- 2- Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw. **Kingtronics**® **International Company**

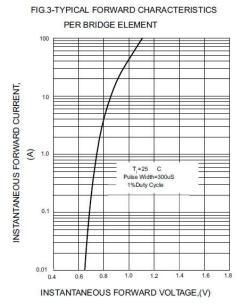
Kingtronics®

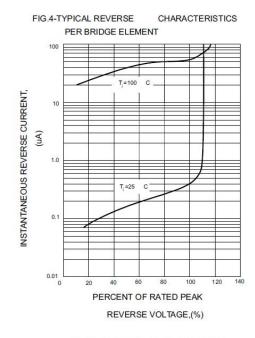
KBPC25005 THRU KBPC2510

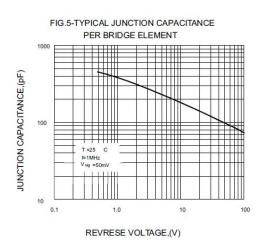
RATINGS AND CHARACTERISTIC CURVES



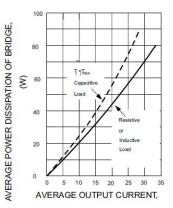












Note: Specifications are subject to change without notice.

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