Kingtronics®

KBPC15005 THRU KBPC1510

SINGLE-PHASE BRIDGE RECTIFIER

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 15.0 Ampere

FEATURES

High forward surge current capability Low thermal resistance High isolation voltage from case to leads High temperature soldering guaranteed: 260°C /10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

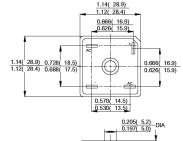
Case: Metal case

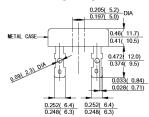
Terminal: Plated 0.25" (6.35mm) lug Polarity: Polarity symbols molded on case

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

Weight: 1.02 ounce, 29 gram

KPBC





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	KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RRM}	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			15							Amps
Rectified Output Current, at TC=50°C (Note1,2)		I _(VA)								
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)		l ² t	373							A ² S
Maximum Instantaneous Forward Voltage at 7.5A		V _F	1.1							Volts
Maximum DC Reverse Current at	Ta=25°C		5.0							uAmps
rated DC blocking voltage	Ta=125°C	- I _R	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	-65 to +150							$^{\circ}$
Storage Temperature Range		Тѕтс	-65 to +150							$^{\circ}$

- 1- Unit mounted on 9"x3.5"x4.6"(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.

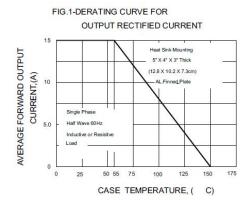
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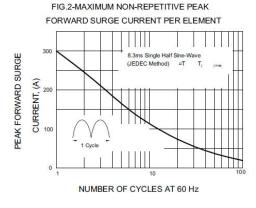
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

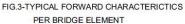
Kingtronics®

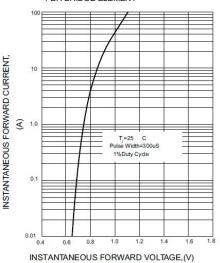
KBPC15005 THRU KBPC1510

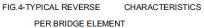
RATINGS AND CHARACTERISTIC CURVES











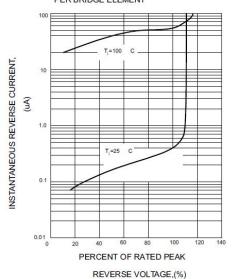


FIG.5-TYPICAL JUNCTION CAPACITANCE

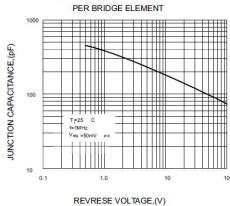
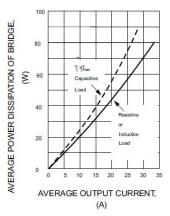


FIG.6-MAXIMUM POWER DISSIPATION



Note: Specifications are subject to change without notice.

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