Kingtronics®

KBPC10005W THRU KBPC1010W

SINGLE-PHASE BRIDGE RECTIFIER

REVERSE VOLTAGE 100 to 1000 Volts FORWARD CURRENT 10.0 Ampere

FEATURES

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

MECHANICAL DATA

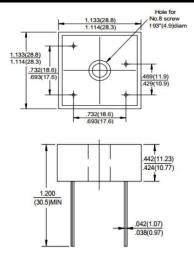
Case: Metal case

Terminal: Plated lead 0.04" (1.02mm) diameter Polarity: Polarity symbols marked on case

Mounting: Thru hole for #8 screw, 20 in,- lbs. Torqute Max

Weight: 0.93 ounce, 26.4gram

KBPC-W



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

For capacitive load derate current by 20%

PARAMETER	SYMBOL	KBPC 10005W	KBPC 1001W	KBPC 1002W	KBPC 1004W	KBPC 1006W	KBPC 1008W	KBPC 1010W	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RRM}	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 Rectified Output Current @ T _C =55°C (Note1, 2)	I _(AV)	10.0							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	240.0							А
Maximum instantaneous forward voltage at 5.0 A	VF	1.0							V
Maximum DC Reverse Current @ T _A =25°C at rated DC blocking voltage @ T _A =150°C	I R	5.0 0.5							uA mA
Isolation Voltage from case to lug	V _{ISO}	2500							V _{AC}
Typical Thermal Resistance (Note 1,2)	R_{qJC}	2.0							°CW
Operating Temperature range	TJ	-55 to +125							$^{\circ}$ C
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$ C

- 1- Unit mounted on 5"x4"x3" thick (12.8mmx10.2mmx7.3mm) Al. 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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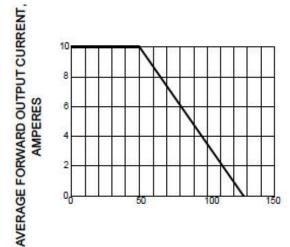
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RATINGS AND CHARACTERISTIC CURVES

FIG.1 - PEAK FORWARD SURGE CURRENT

AMPERS OF CACTES VI 200 PEAK FORWARD SUBSE CURRENT Ti = 180, C Signary Single Half-Sine Mane 1 10 100 NUMBER OF CACTES VI 200 NUMBER OF CACT

FIG.2 - FORWARD DERATING CURVE



AMBIENT TEMPERATURE, "C

FIG.3 - TYPICAL FORWARD CHARACTERISTIC

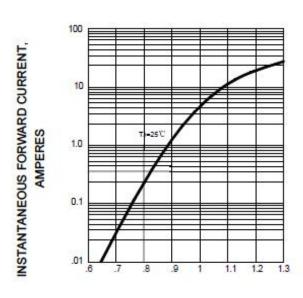
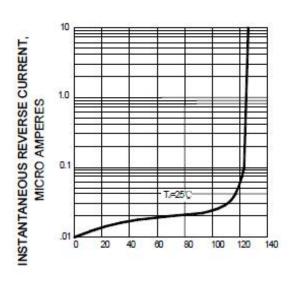


FIG.4 - TYPICAL REVERSE CHARACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Note: Specifications are subject to change without notice.

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