# Kingtronics®

## KBPC25005W THRU KBPC2510W

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

**KBPC-W** 

#### **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.

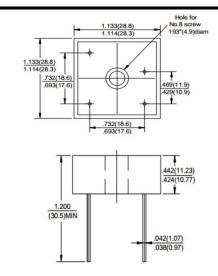
Mounting: Thru hole for #10 screw, 20 in,- lbs. Torque Max.

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%

**Dimensions in inches and (millimeters)** 



For capacitive load derate current by 20%										
PARAMETER		SYMBOL	KBPC 25005W	KBPC 2501W	KBPC 2502W	KBPC 2504W	KBPC 2506W	KBPC 2508W	KBPC 2510W	UNIT
Maximum Repetitive Peak Revere Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	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)		<b>I</b> FSM	300							Amps
Rating for Fusing(t<8.3ms)		I <sub>2</sub> T	373							A <sup>2</sup> s
Maximum Instantaneous Forward Voltage at12.5A		V <sub>F</sub>	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> =25℃	- I <sub>R</sub>	5.0							μAmps
	T <sub>A</sub> =125℃		0.5							mAmps
Isolation Voltage from case to lugs		V <sub>ISO</sub>	2500							$V_{AC}$
Typical Thermal Resistance (Note 1,2)		Rejl	2.0							
Operating Temperature Range		TJ	-65 to +150							$^{\circ}$
Storage Temperature Range		Tstg	-65 to +150							$^{\circ}$

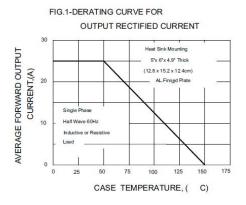
- 1- Unit mounted on 9"x3.5"x4.6" thick (23x9x11.8mm) Al. finned plate.
- 2- Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

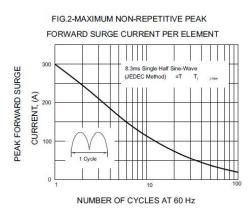
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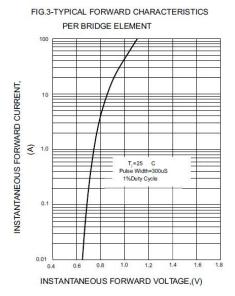
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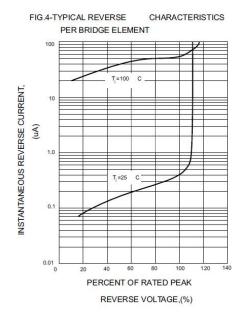
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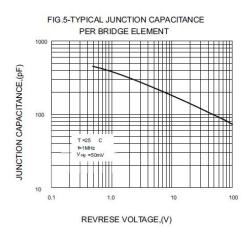
#### RATINGS AND CHARACTERISTIC CURVES



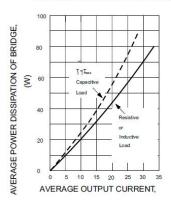












Note: Specifications are subject to change without notice.

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