

KBPC50005 THRU

SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts

CURRENT 50.0 Ampere

KBPC

FEATURES

High forward surge current capability Inergrally molded heatsink provide very 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

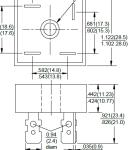
Case: Metal case

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

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

Max

Weight: 1.02 ounce, 29 gram



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)

	Í	SYMBOL	KBPC 50005	KBPC 5001	KBPC 5002	KBPC 5004	KBPC 5006	KBPC 5008	KBPC 5010	UNIT
Maximum Repetitive Peak Reverse 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		I _(AV)	50							Amps
Rectified Output Current, at Tc=50°C (Note1,2)										
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	400							Amps
Rating for Fusing(t<8.3ms)		l ² t	664							A ² S
Maximum Instantaneous Forward Voltage at 25A		V _F	1.1							Volts
Maximum DC Reverse Current at	Ta=25℃		5.0							uAmps
rated DC blocking voltage	Ta=125℃	- I _R	1.0							mAmps
Isolation Voltage from case to lugs		V _{ISO}	2500							V _{AC}
Typical Thermal Resistance (Note 1,2)		Rөjc	2.0							°C/W
Operating Temperature Range		TJ	-55 to +125							$^{\circ}$
Storage Temperature Range		Тѕтс	-55 to +150							$^{\circ}$
1- Unit mounted on 9"×3.5"×4.6"(23×9×11.8mm) Al. finned plate.										

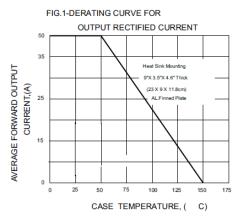
- Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw. Kingtronics[®] International Company

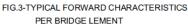
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Kingtronics®

KBPC50005 THRU KBPC5010

RATINGS AND CHARACTERISTIC CURVES





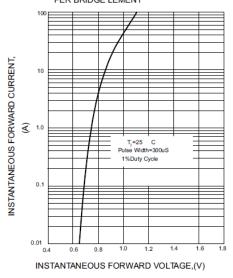
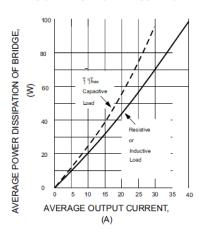


FIG.5-MAXIMUM POWER DISSIPATION



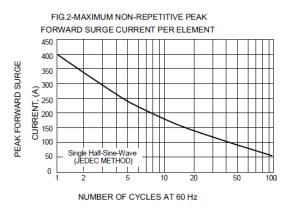
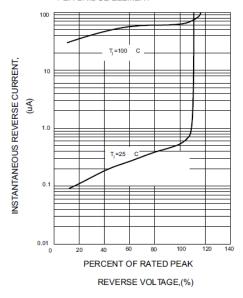


FIG.4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.

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