# **KBPC35005 THRU** KBPC3510

SINGLE-PHASE BRIDGE RECTIFIER **VOLTAGE RANGE 50 to 1000 Volts CURRENT** 35.0 Ampere

#### **FEATURES**

High forward surge current capability. Integrally 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**

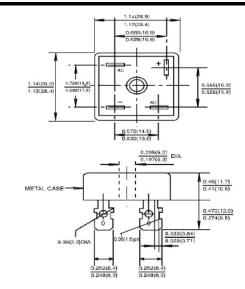
Case: Metal case. Terminal: Plated 0.25" (6.35mm) lug. Polarity: Polarity symbols marked on case. Mounting: Thru hole for #10 screw, 20 in,- lbs. Torque Max. Weight: 1.02 ounce, 29gram.

#### 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%

**KBPC** 



#### Dimensions in inches and (millimeters)

For capacitive load derate current by 20%										
PARAMETER		SYMBOL	KBPC 35005	KBPC 3501	KBPC 3502	KBPC 3504	KBPC 3506	KBPC 3508	KBPC 3510	UNIT
Maximum Repetitive Peak Revere Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	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)	35							Amps
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)		I2T	664							A <sup>2</sup> s
Maximum Instantaneous Forward Voltage at17.5A		VF	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	Ta=25℃	IR	5.0							µAmps
	Ta=125℃		0.5							mAmps
Isolation Voltage from case to lugs		V <sub>ISO</sub>	2500							V <sub>AC</sub>
Typical Thermal Resistance (Note 1,2)		Rej∟	2.0							°C/W
Operating Temperature Range		TJ	-65 to +150							°C
Storage Temperature Range		Tstg	-65 to +150							°C
1- Unit mounted o	n 9"×3.5"×4.6" thick (	23×9×11.8	mm) Al. p	late.						<u>.                                    </u>

thick (23×9×11.8mm) Al. plate.

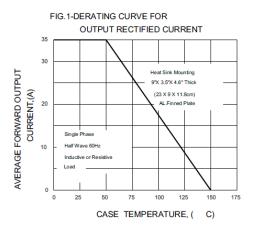
Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer 2efficiency with #10 screw. Kingtronics<sup>®</sup> International Company

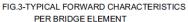
Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099 Website: www.kingtronics.com

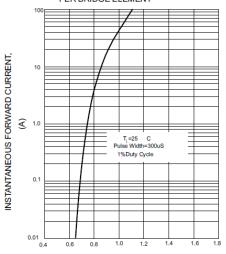
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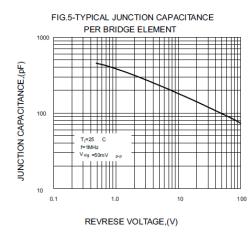
## RATINGS AND CHARACTERISTIC CURVES

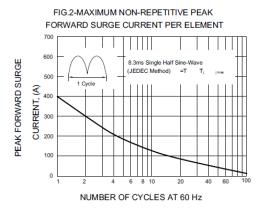






INSTANTANEOUS FORWARD VOLTAGE,(V)





**KBPC3510** 

KBPC35005 THRU

FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

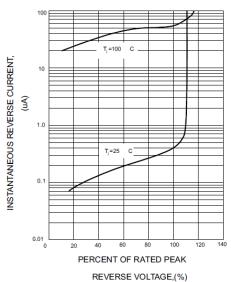
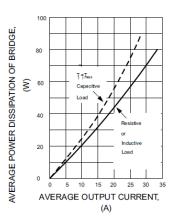


FIG.6-MAXIMUM POWER DISSIPATION



Note: Specifications are subject to change without notice.

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