Kingtronics®

KBP2005 THRU KBP210

Single Phase 2.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 2.0 Amperes

FEATURES

- ◆Ideal for printed circuit board
- ◆ Reliable low cost construction technique results in inexpensive product
- ◆ High temperature soldering guaranteed:

 $250\,^{\circ}$ C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension

◆UL Recognized File number: E347214

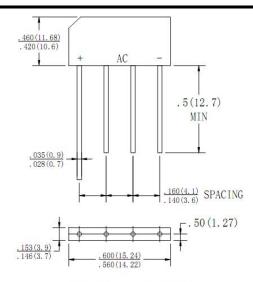
MECHANICAL DATA

◆Case: Molded plastic

◆Lead: solder plated

◆Polarity: As marked

Package: KBP



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

		KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA = 50°C	I(AV)				2.0				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	İfsm				60				А
Maximum Instantaneous Forward Voltage @ 3.14A	VF				1.2				V
Maximum DC Reverse Current @ Ta=25°C rated DC blocking voltage per leg Ta = 125°C	lR				10 500				μА
Typical Thermal Resistance (Note)	Røja Røjl				25 8.0				°C/W
Operating Temperature Range	TJ			-5	55 to +15	50			$^{\circ}$
Storage Temperature Range	Тѕтс	•	•	-5	55 to +15	50	•	_	$^{\circ}$

NOTE: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.47 × 0.47" (12 × 12mm)

Copper Pads

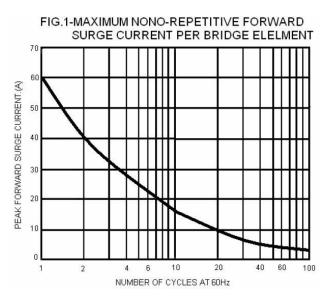
Kingtronics ® International Company

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RATING AND CHARACTERISTIC CURVES KBP2005 THRU KBP210



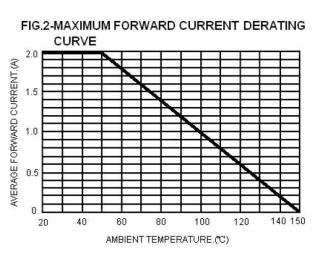


FIG.3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS PER BRIDGE ELEMENT

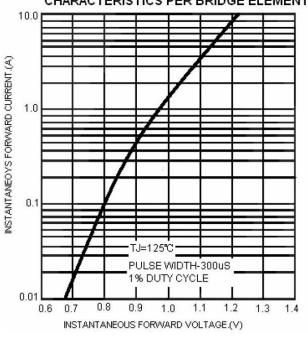
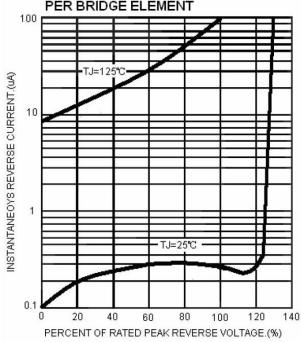


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.

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