

KBP2005G THRU KBP210G

SINGLE PHASE 2.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

Glass passivated die construction

· Low forward voltage drop

High current capability

• High surge current capability

Plastic material-UL flammability 94V-0

Mechanical Data

· Case: KBP, molded plastic

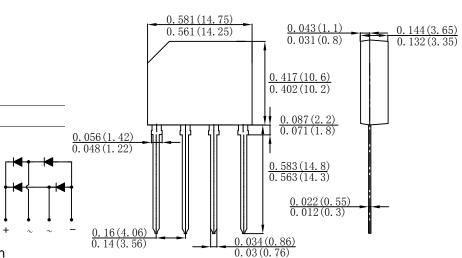
 Terminals: plated leads solderable per MIL-STD-202, Method 208

Polarity: as marked on case

Mounting position: Any

· Marking: type number

· Lead Free: For RoHS / Lead Free Version



Dimensions in inches and (millimeters)

KBP

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	KBP 2005G	KBP 201G	KBP 202G	KBP 204G	KBP 206G	KBP 208G	KBP 210G	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM								
	VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @Tc=100°C	lF(AV)	2.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	60						Α	
2t Rating for Fusing (t < 8.3ms)	l²t	14.94						A ² s	
Forward Voltage per element @IF=2.0A	VFM	1.1							V
Peak Reverse Current	lR	5.0 500							uA
Typical Thermal Resistance per leg (Note 2)	Reja	25							°C/W
	Røjl	8							
Operating and Storage Temperature Range	TJ,Tstg	-55to+150							$^{\circ}$ C

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

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Fig. 1 Forward Current Derating Curve

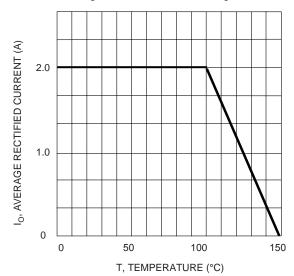


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

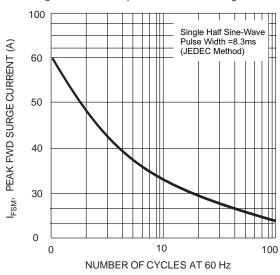


Fig. 5 T ypical Reverse Characteristics (per element)

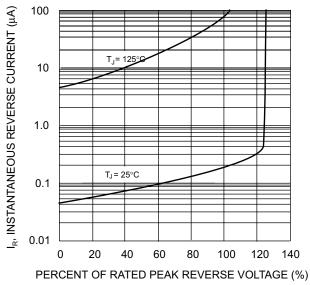


Fig. 2 Typical Fwd Characteristics

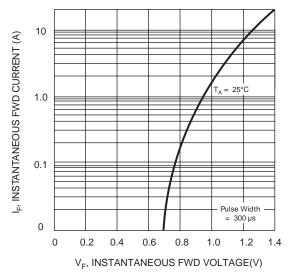
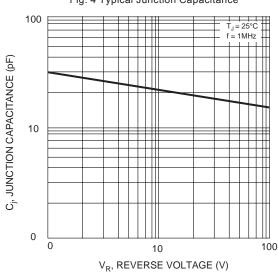


Fig. 4 Typical Junction Capacitance



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