

KBP2005G(H)THRU KBP210G(H)

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

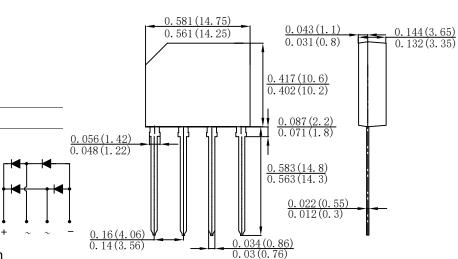
 Terminals: plated leads solderable per MIL-STD-202, Method 208

· 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℃ 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(H	KBP) 201G(H)	KBP 202G(H)	KBP 204G(H)	KBP 206G(H)	KBP 208G(H)	KBP 210G(H)	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	I F(AV)	2.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	60						А	
l²t 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 @T _A =25℃ At Rated DC Blocking Voltage @T _A =125℃	lR	5.0 500							uA
Typical Thermal Resistance per leg (Note 2)	Rеја	25							°C/W
	Rejl	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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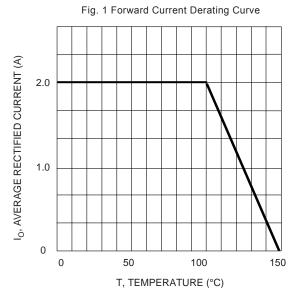


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

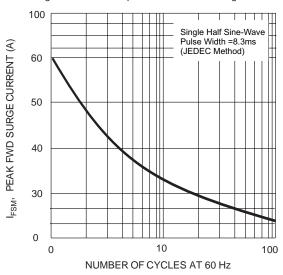
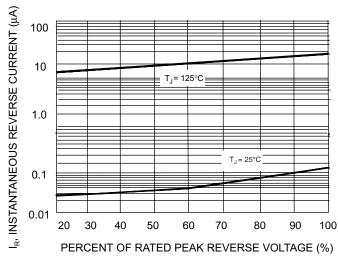


Fig. 5 T ypical Reverse Characteristics (per element)



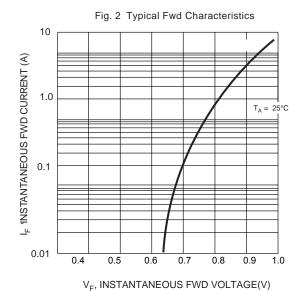
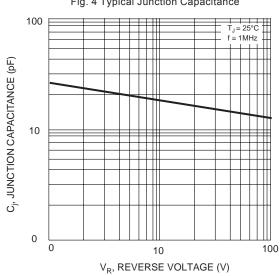


Fig. 4 Typical Junction Capacitance



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