

KBP4005G THRU KBP410G

SINGLE PHASE 4.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

Glass passivated die construction

Low forward voltage drop

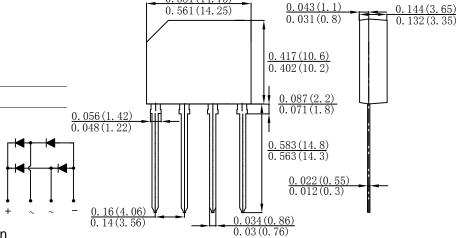
High current capability

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



0.581 (14.75)

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 4005G	KBP 401G	KBP 402G	KBP 404G	KBP 406G	KBP 408G	KBP 410G	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	V
	VRWM								
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (With heatsink) @Tc=100°C (Note 1) (Without heatsink)	I F(AV)	4.0 2.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	120							А
I²t Rating for Fusing (t < 8.3ms)	l ² t	59.76							A²s
Forward Voltage per element @IF=4.0A	VFM	1.1							V
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	lR	5.0 200							uA
Typical Junction Capacitance (Note2)	Cj	30							pF
Typical Thermal Resistance	Reja	40							~°C/W
	Rejl	20							
Operating and Storage Temperature Range	TJ,Tstg	-55to+150							$^{\circ}$

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

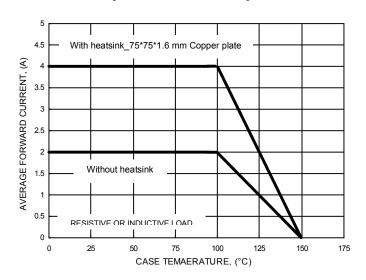


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

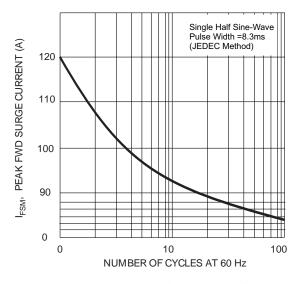


Fig. 5 T ypical Reverse Characteristics (per element)

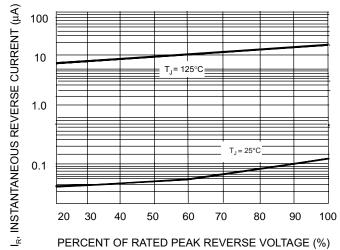


Fig. 2 Typical Fwd Characteristics

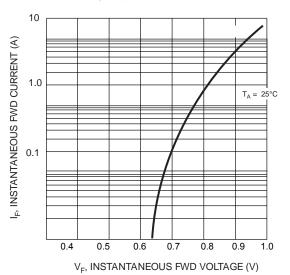
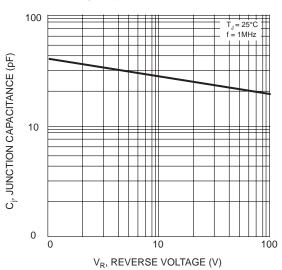


Fig. 4 Typical Junction Capacitance



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