

KBP4005G(H) THRU KBP410G(H)

SINGLE PHASE 4.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

· Glass passivated die construction

· Low forward voltage drop

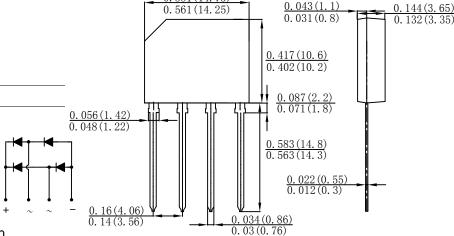
High current capability

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



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(NOTE 1)	SYMBOL	KBP 4005G(H)	KBP 401G(H)	KBP 402G(H)	KBP 404G(H)	KBP 406G(H)	KBP 408G(H)	KBP 410G(H)	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	
	VRWM								V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (With heatsink) @Tc=100°C (Note 2) (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)	Iғsм	120							А
I ² t Rating for Fusing (t < 8.3ms)	l²t	59.76						A ² s	
Forward Voltage per element @IF=4.0A	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 3)	RөJA	40							°C/W
	Rejl	20							
Operating and Storage Temperature Range	TJ,Tstg	-55to+150							$^{\circ}\mathbb{C}$

Note:1."H":Halogen Free.

- 2. Mounted on glass epoxy PC board with 1.3mm² solder pad.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0 V D.C..

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Fig. 1 Forward Current Derating Curve

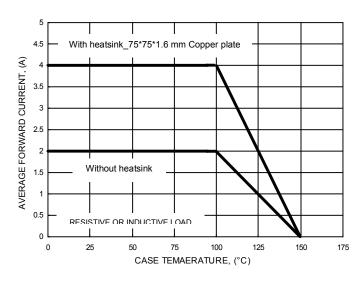


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

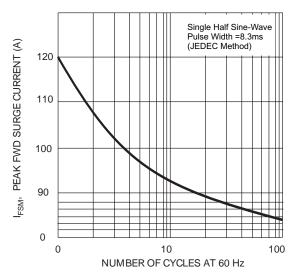


Fig. 5 T ypical Reverse Characteristics (per element)

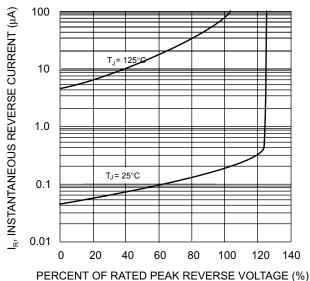


Fig. 2 Typical Fwd Characteristics

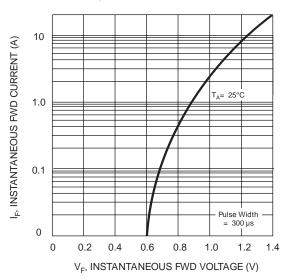
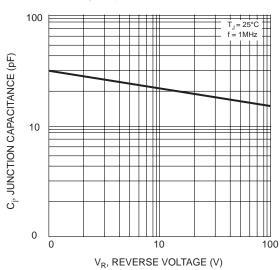


Fig. 4 Typical Junction Capacitance



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