

# Glass Passivated Bridge Rectifiers KBP04A Series

## PACKAGE DIMENSION (KBP)



# **FEATURES**

- Forward Current : 4.0A
- Reverse Voltage 600V, 800V
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0

# MECHANICAL DATA

- Polarity : As marked on body
- Weight : 0.05 ounces, 1.52 grams
- Mounted position : Any

## **PIN CONFIGURATION**



# ORDERING INFORMATION

Part Number	QTY per Tube	QTY Per Carton Box
KBP04A60B	35 pcs	2,800 pcs
KBP04A80B	35 pcs	2,800 pcs

## MARKING CODE



## MARKING INFORMATION

Part Number	Marking code		
KBP04A60B	04A60B		
KBP04A80B	04A80B		

# **PRODUCT DATASHEET** Bridge Rectifiers – **KBP04A Series**

# MAXIMUM RATING and ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter		Symbols	KBP04A60B	KBP04A80B	Units	
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	600	800	V	
Maximum RMS voltage		V <sub>RMS</sub>	420	560	V	
Maximum DC Blocking Voltage		V <sub>DC</sub>	600	800	V	
Maximum Average Forward (With heatsink) Rectified Current at Tc = 100°C (Without heatsink)		I <sub>(AV)</sub>	4 2		А	
Peak Forward Surge Current 8.3ms Single Half Sine Wave		I <sub>FSM</sub>	130		A	
Maximum Forward Voltage at 4A DC		V <sub>F</sub>	1.1		V	
Maximum DC Reverse Current at Rated Blocking Voltage	@T <sub>J</sub> =25 °C	I <sub>R</sub>	5		μA	
	@T <sub>J</sub> =125 ℃		500			
l <sup>2</sup> t Rating for fusing (3ms≤t≤8.3ms)		l²t	70		A <sup>2</sup> S	
Typical Junction Capacitance per Element (Note1)		Cj	40		pF	
Typical Thermal Resistance (Unit mounted on 75mm×75mm×1.6mm		Rθ <sub>JA</sub>	15		°C/W	
		Rθ <sub>JC</sub>	6			
copper plate heat sink)		Rθ <sub>JL</sub>	8			
Typical Thermal Resistance		Rθ <sub>JA</sub>	40		°C/W	
		Rθ <sub>JC</sub>	14			
		Rθ <sub>JL</sub>	2	0		
Operating Junction Temperature Range		Tj	-55 ~ +150		°C	
Storage Temperature Range		T <sub>stg</sub>	-55 ~ +150		°C	

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C

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# Fig.3 Typical Forward Characteristics



Instaneous Forward Voltage (V)



Number of Cycles at 60Hz

Fig.2 Typical Instaneous Reverse Characteristics



Percent of Rated Peak Reverse Voltage (%)

Fig.4 Typical Junction Capacitance



Reverse Voltage (V)





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PACKAGE DIMENSION (KBP)



DIM	MILLIMETERS
А	$14.5 \pm 0.25$
В	$3.5 \pm 0.15$
С	$10.4 \pm 0.2$
D	$14.49 \pm 0.24$
d	$1.55 \pm 0.15$
Е	$2.0 \pm 0.2$
F	0.95 ± 0.15
G	3.81 ± 0.25
Н	0.45 ± 0.1
Ι	$1.32 \pm 0.1$
J	$0.81 \pm 0.05$
К	Typ. 2.7×45°
L	3°
М	<b>2</b> °

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- 1. The products described in this data are intended to be used in general-purpose electronic equipment (Office equipment, telecommunication equipment, measuring equipment, home appliances)
- 2. When you intend to use these products with equipment or device which require an extremely high of reliability and special applications (such as automobile, air travel aerospace, transportation equipment, life support, system and safety devices) in which special quality and reliability and the failure or malfunction of products may directly jeopardize or harm the human body or damage to property and any application other than the standard application intended, please be sure to consult with our sales representative in advance.
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