

## KBP404G~KBP410G

### **GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE – 400 to 1000 Volts FORWARD CURRENT – 4.0 Ampere

#### **FEATURES**

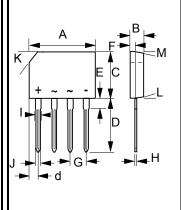
- Rating to 1000V PRV
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- UL recognized file #95060

#### **MECHANICAL DATA**

Polarity : As marked on bodyWeight : 0.05 ounces, 1.52 grams

• Mounting position : Any

# KBP



КВР						
DIM.	MIN.	MAX.				
Α	14.25	14.75				
В	3.35	3.65				
С	10.20	10.60				
D	14.25	14.73				
d	1.40	1.70				
Е	1.80	2.20				
F	0.80	1.10				
G	3.56	4.06				
Н	0.35	0.55				
I	1.22	1.42				
J	0.76	0.86				
K	2.7 x 45°(Typ.)					
L	-	3°				
М	-	2°				
All Dimensions in millimeter						

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

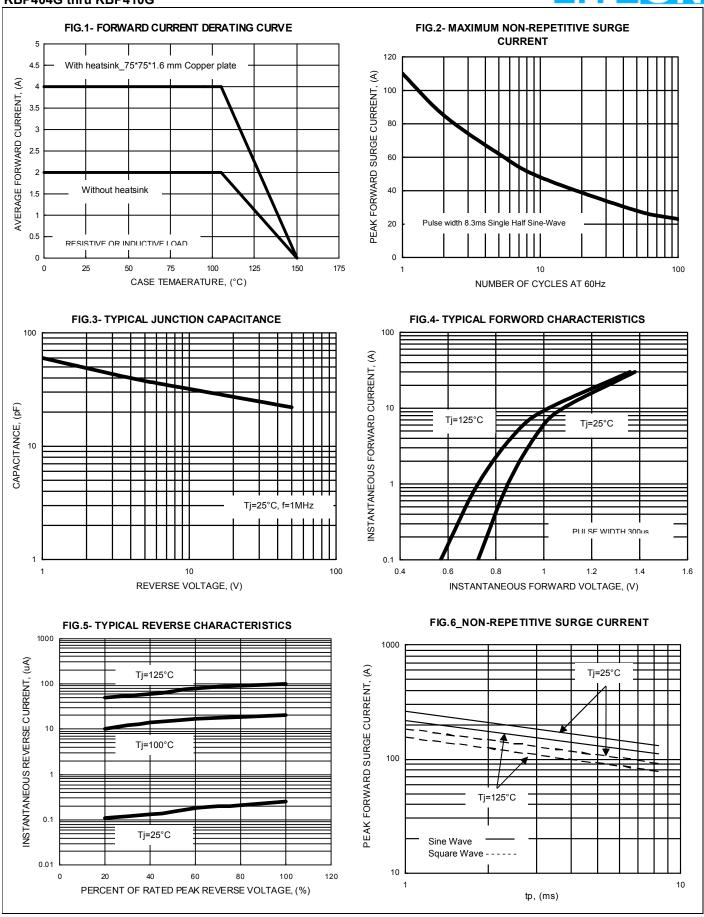
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	KBP404G	KBP406G	KBP408G	KBP410G	UNIT
Device indicate code	Code	KBP404G	KBP406G	KBP408G	KBP410G	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	800	1000	V
Maximum Average Forward Rectified (With heatsink) Current @T <sub>C</sub> =105°C (Without heatsink)	I <sub>(AV)</sub>	4.0 2.0				А
Peak Forward Surge Current @ Tj = 25 $^{\circ}$ C 8.3ms single half sine-wave @ T <sub>J</sub> = 125 $^{\circ}$ C	I <sub>FSM</sub>	130 110				
Peak Forward Surge Current @ Tj =25 $^{\circ}$ C 1.0ms single half sine-wave @ T <sub>J</sub> =125 $^{\circ}$ C	I <sub>FSM</sub>	260 220				Α
Maximum Forward Voltage at 4.0A DC	V <sub>F</sub>	1.1				V
Maximum DC Reverse Current at rated @Tj=25°C Blocking Voltage @Tj=125°C	I <sub>R</sub>	5.0 500				uA
$\text{I}^2 t \text{ Rating for fusing (3ms} \leqq t \leqq 8.3\text{ms)}$	I <sup>2</sup> t	50				A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	CJ	40			pF	
Typical thermal resistance (Unit mounted on 75mmx75mmx1.6mm Copper plate heatsink.)	R⊖ <sub>JC</sub> R⊖ <sub>JL</sub> R⊖ <sub>JA</sub>	6 8 15				°C/W
Typical thermal resistance (without heatsink)	R⊕ <sub>JC</sub> R⊕ <sub>JL</sub> R⊕ <sub>JA</sub>	14 20 40				°C/W
Operation and Storage Temperature Range	T <sub>J,</sub> T <sub>STG</sub>	-55 to 150				°C

Note : (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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