



Micro Commercial Components



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20736 Marilla Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

# KBP4005G THRU KBP410G

**4 Amp  
Bridge Rectifier  
50 to 1000 Volts**

## Features

- High Surge forward current capability
- Ideal for printed circuit board
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

## Maximum Ratings

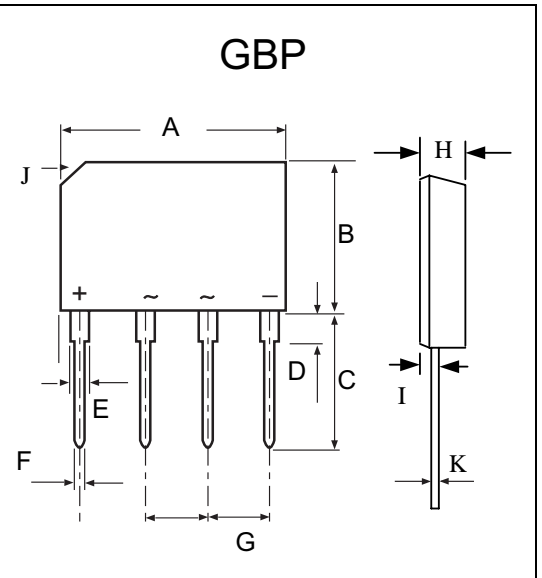
- I<sup>2</sup>t Rating for Fusing(t<8.3ms): 50 A<sup>2</sup>S
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP4005G	KBP4005G	50V	35V	50V
KBP401G	KBP401G	100V	70V	100V
KBP402G	KBP402G </td <td>200V</td> <td>140V</td> <td>200V</td>	200V	140V	200V
KBP404G	KBP404G	400V	280V	400V
KBP406G	KBP406G	600V	420V	600V
KBP408G	KBP408G	800V	560V	800V
KBP410G	KBP410G	1000V	700V	1000V

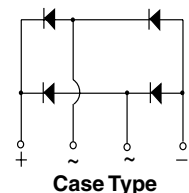
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	4.0A	T <sub>C</sub> = 70°C
Peak Forward Surge Current	I <sub>FSM</sub>	110A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.05V	I <sub>FM</sub> = 2.0A T <sub>A</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10μA	T <sub>A</sub> = 25°C
Thermal Resistance	R <sub>θJA</sub> R <sub>θJC</sub>	47°C/W 10°C/W	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

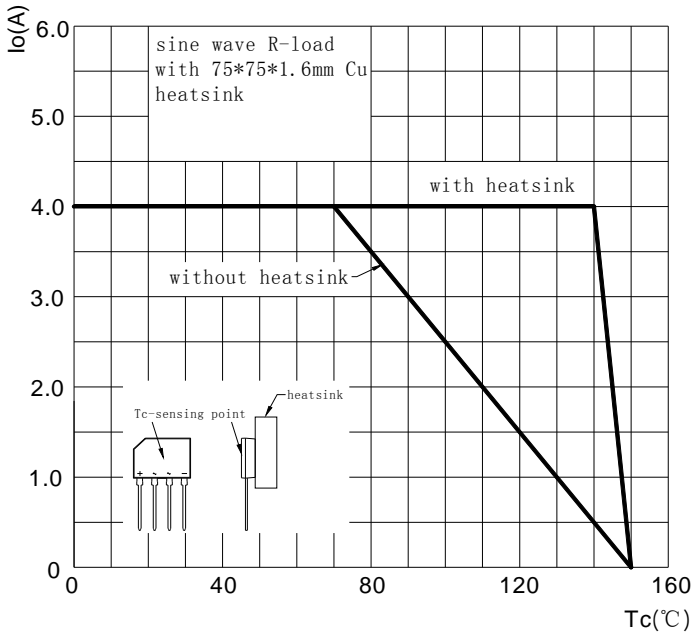


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.561	.580	14.25	14.75	
B	.406	.417	10.10	10.60	
C	.561	.581	14.25	14.73	
D	.071	.087	1.80	2.20	
E	.048	.056	1.22	1.42	
F	.030	.034	0.76	0.86	
G	.146	.154	3.70	3.90	
H	.131	.144	3.35	3.65	
I	.031	.043	0.80	1.10	
J	.106 x45°		2.70x45°		
K	.014	.022	0.35	0.55	

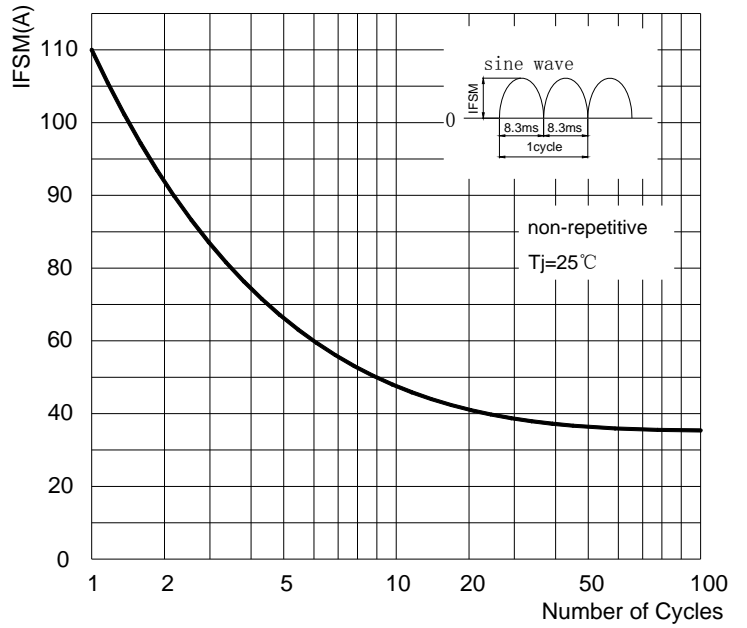


**Characteristics(Typical)**

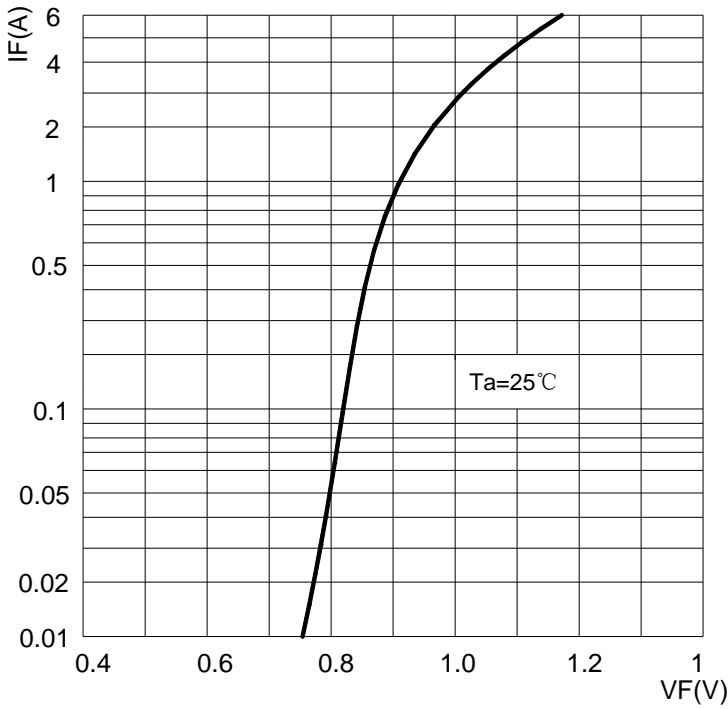
**FIG1:Io-Tc Curve**



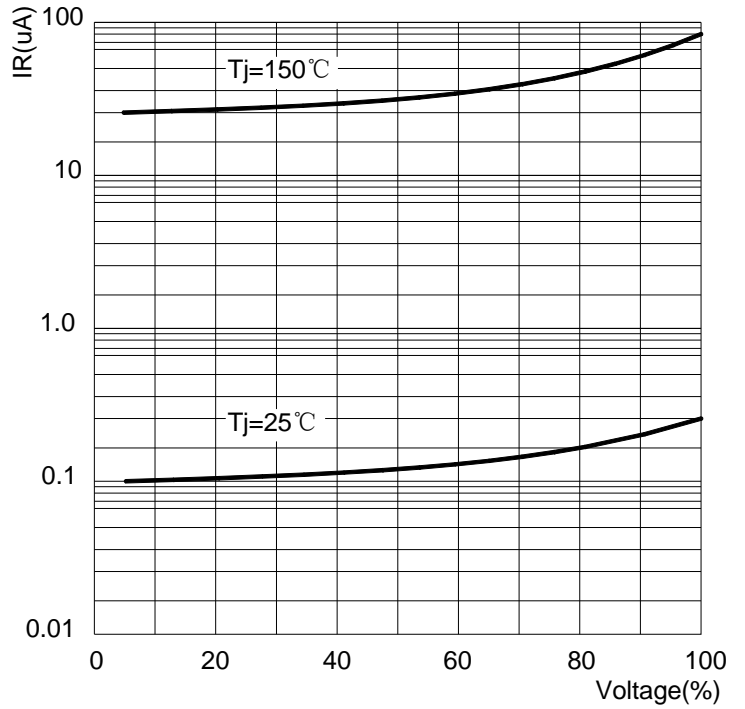
**FIG2:Surge Forward Current Capadity**



**FIG3: Forward Voltage**



**FIG4:Typical Reverse Characteristics**





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### Ordering Information :

Device	Packing
Part Number-BP	Bulk: 4.2Kpcs/Ctn

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.