



Micro Commercial Components



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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

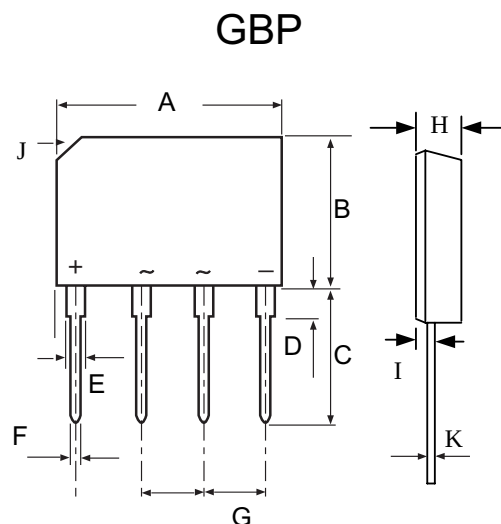
- I^2t Rating for Fusing ($t < 8.3\text{ms}$): $50 \text{ A}^2\text{S}$
- Operating Temperature: -55°C to $+150^\circ\text{C}$
- Storage Temperature: -55°C to $+150^\circ\text{C}$
- UL Recognized File # E165989

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	200V	140V	200V
KBP404G	KBP404G	400V	280V	400V
KBP406G	KBP406G	600V	420V	600V
KBP408G	KBP408G	800V	560V	800V
KBP410G	KBP410G	1000V	700V	1000V

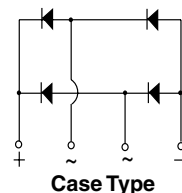
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4.0A	$T_C = 70^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	110A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.05V	$I_{FM} = 2.0\text{A}$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA	$T_A = 25^\circ\text{C}$
Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$	47 $^\circ\text{C/W}$ 10 $^\circ\text{C/W}$	

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 x 45°		2.70 x 45°		
K	.014	.022	0.35	0.55	



Characteristics(Typical)

FIG1:Io-Tc Curve

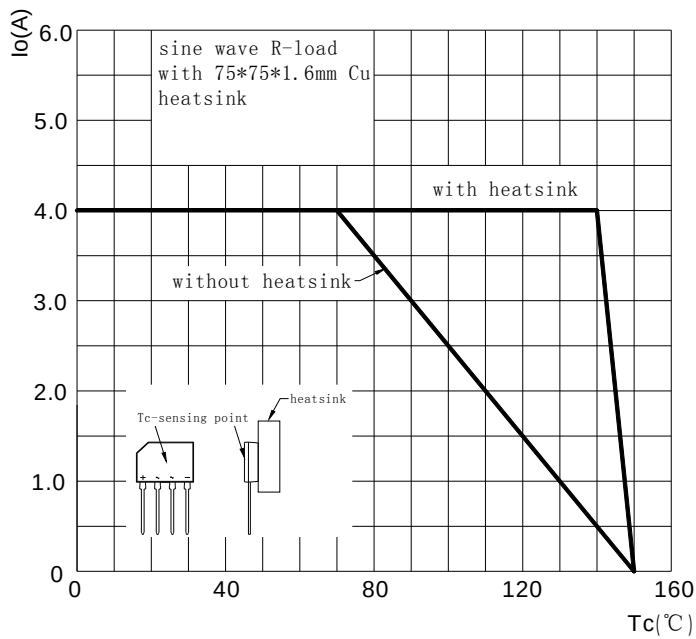


FIG2: Surge Forward Current Capability

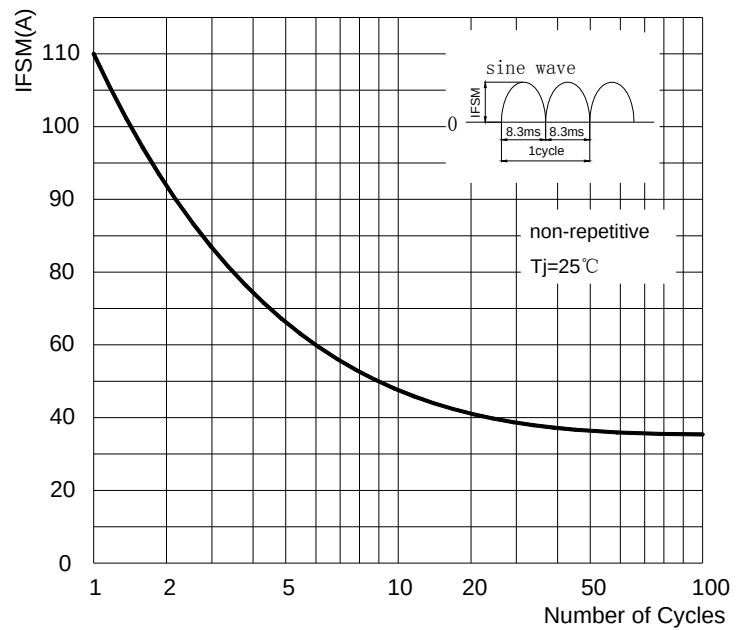


FIG3: Forward Voltage

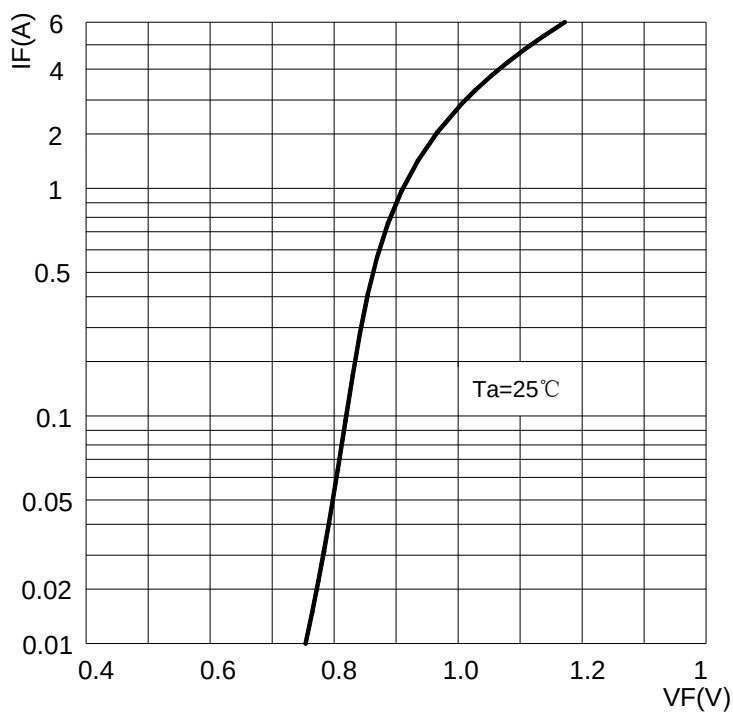
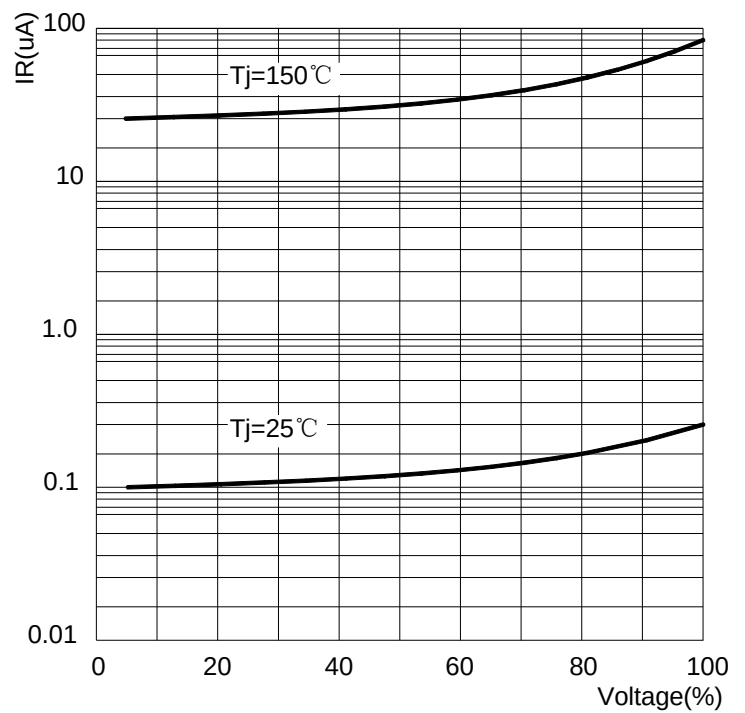


FIG4: Typical Reverse Characteristics



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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