



Micro Commercial Components



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KBP3005G THRU KBP310G

Features

- Surge overload ratings 80 amperes peak
- High Reliability
- Ideal for printed circuit board
- Halogen free available upon request by adding suffix "-HF"
- 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 ($t < 8.3\text{ms}$): $26\text{ A}^2\text{s}$
- 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
KBP3005G	KBP3005G	50V	35V	50V
KBP301G	KBP301G	100V	70V	100V
KBP302G	KBP302G	200V	140V	200V
KBP304G	KBP304G	400V	280V	400V
KBP306G	KBP306G	600V	420V	600V
KBP308G	KBP308G	800V	560V	800V
KBP310G	KBP310G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

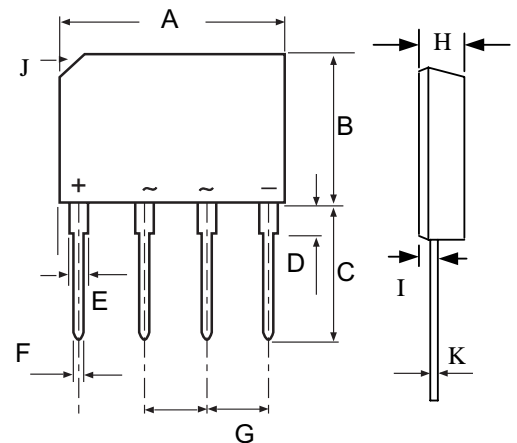
Average Forward Current	$I_{F(AV)}$	3.0A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	80A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 1.0\text{A}$ per element; $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$10\mu\text{A}$ 1mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Thermal Resistance(note 2)	R_{thJA} R_{thJL}	30°C/W 11°C/W	

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

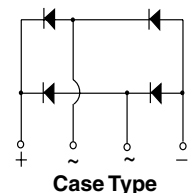
2. Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with, 0.59×0.59 (15 X 15mm) copper pads.

3 Amp Bridge Rectifier 50 to 1000 Volts

GBP

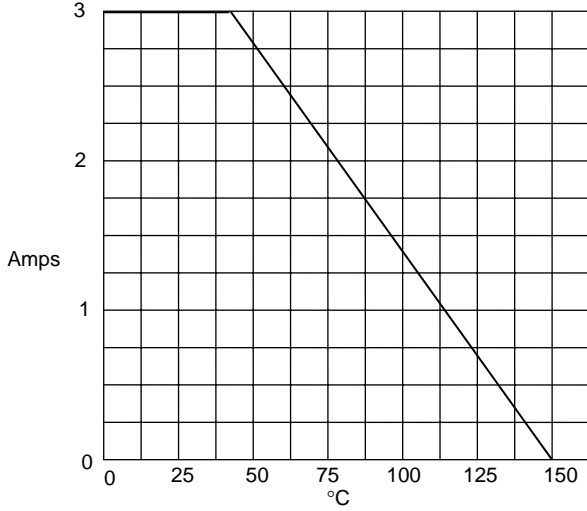


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.561	.580	14.25	14.75	
B	.410	.417	10.20	10.60	
C	.561	.581	14.25	14.73	
D		.090		2.29	
E	.046	.056	1.17	1.42	
F	.030	.034	0.76	0.86	
G	.140	.160	3.56	4.06	
H	.138	.161	3.50	4.10	
I	.045	.060	1.14	1.52	
J	.110 x 45°		2.80 x 45°		
K	.012	.025	.300	.641	



Case Type

Figure 1
Forward Derating Curve



Average Forward Rectified Current - Amperes versus Ambient Temperature - °C

Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

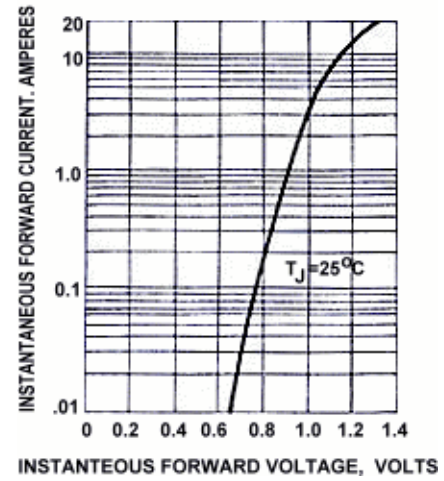


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

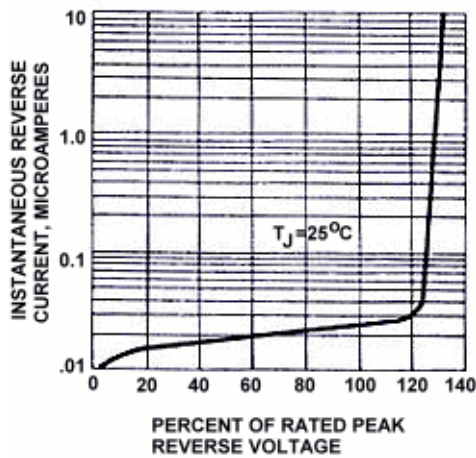
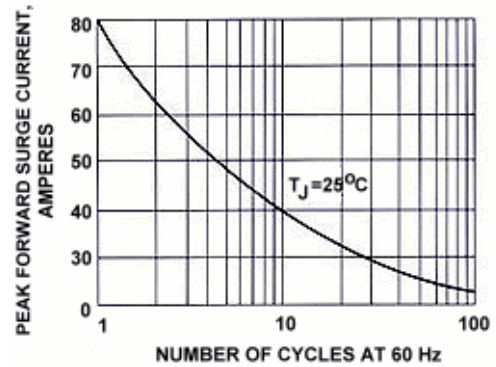


Fig. 4 - MAXIMUM FORWARD SURGE CURRENT



Ordering Information

Device	Packing
(Part Number)-BP	Bulk: 1250pcs/Box;

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

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