

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

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

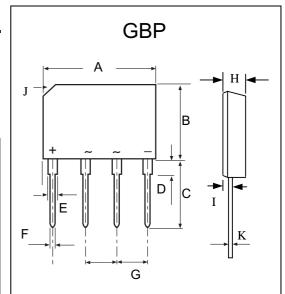
- I²t Rating for Fusing(t<8.3ms):26 A²s
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP3005G	KBP3005G		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

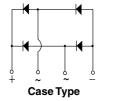
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	$I_{F(AV)}$	3.0A	T _A = 55°C		
Peak Forward Surge Current	I _{FSM}	80A	8.3ms, half sine		
Maximum Forward Voltage Drop Per Element	V_{F}	1.1V	I_{FM} = 2.0A per element; T_A = 25°C		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 1mA	T _J = 25°C T _J = 100°C		
Typical Thermal Resistance(note 2)	$R_{ ext{thJA}}$ $R_{ ext{thJL}}$	30°C/W 11°C/W			

3 Amp Bridge Rectifier 50 to 1000 Volts



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.561	.580	14.25	14.75	
В	.410	.417	10.20	10.60	
С	.561	.581	14.25	14.73	
D	.090		2.29		
Е	.046	.056	1.17	1.42	
F	.030	.034	0.76	0.86	
G	.140	.160	3.56	4.06	
Н	.138	.161	3.50	4.10	
I	.045	.060	1.14	1.52	
J	.110 x45°		2.80x45°		
K	.012	.025	.300	.641	

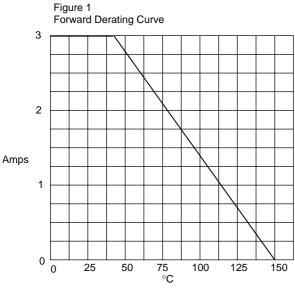


Note: 1. High Tempertaure Solder Exemption Applied, See EU Directive Annex Notes 7a $\,$

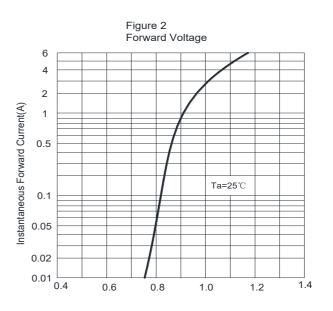
^{2.} Thermal resistance from junction to ambint and junction to lead mounted on P.C.B. with, 0.59 X 0.59"(15 X 15mm) copper pads.

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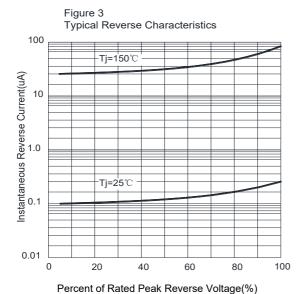


Average Forward Rectified Current - Amperes versus Ambient Temperature - $^{\circ}\text{C}$



Instantaneous Forward Voltage(V)

Figure 4



Surge Forward Current Capability 140 120 Peak Forward Surge Current(A) 100 non-repetiti Tj=25℃ 80 60 40 20 0 5 50 100 20 Number of Cycles



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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Micro Commercial Components (MCC): KBP308G-BP KBP306G-BP KBP310G-BP