

**NOT RECOMMENDED FOR NEW DESIGNS**  
**USE KBP3005G-BP~KBP310G-BP Series**



Micro Commercial Components



Micro Commercial Components  
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**KBP3005**  
**THR**  
**KBP310**

## Features

- Surge overload ratings 80 amperes peak
- Lead: Matte Tin Plated Copper Lead
- Ideal for printed circuit board
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

- Marking: Type Number
- I<sup>2</sup>t Rating for Fusing(t<8.3ms): 50 A<sup>2</sup>s
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

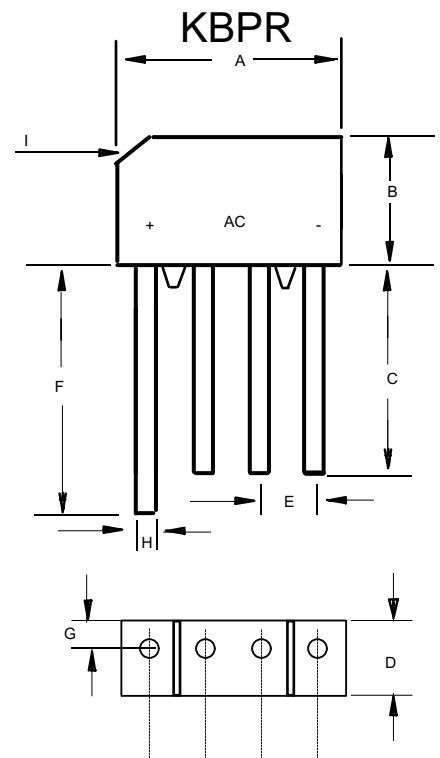
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP3005	KBP3005	50V	35V	50V
KBP301	KBP301	100V	70V	100V
KBP302	KBP302	200V	140V	200V
KBP304	KBP304	400V	280V	400V
KBP306	KBP306	600V	420V	600V
KBP308	KBP308	800V	560V	800V
KBP310	KBP310	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	3.0A	T <sub>A</sub> = 55°C
Peak Forward Surge Current	I <sub>FSM</sub>	80A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V <sub>F</sub>	1.1V	I <sub>FM</sub> = 1.0A per element; T <sub>A</sub> = 25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10µA 1mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7  
 2. Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

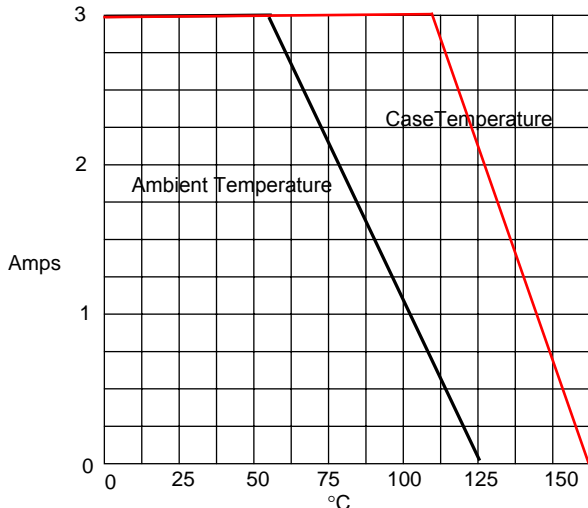
**3 Amp**  
**Bridge Rectifier**  
**50 to 1000 Volts**



DIM	DIMENSION				NOTE
	INCHES		MM		
A	.560	.600	14.32	15.24	
B	.420	.460	10.70	11.70	
C	.500	---	12.70	---	
D	.132	.144	3.35	3.65	
E	.140	.160	3.60	4.10	
F	.600	---	15.24	---	
G	.035	.047	0.90	1.20	
H	.028	.034	0.70	0.90	
I	0.12X45		3.0X45		

# KBP3005 THRU KBP310

Figure 1  
Forward Derating Curve



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

Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

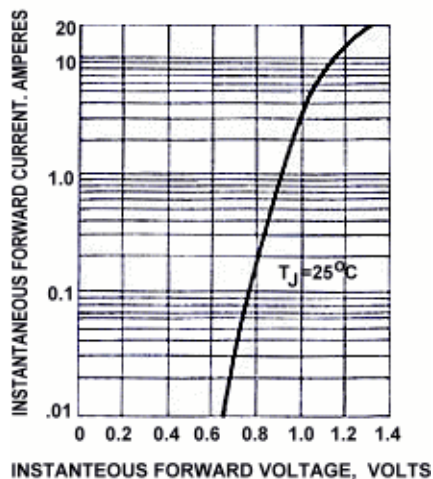


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

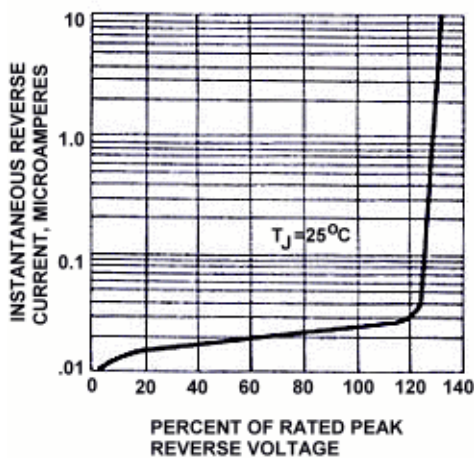
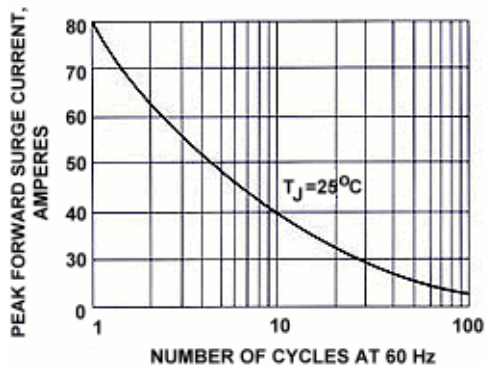


Fig. 4 - MAXIMUM FORWARD SURGE CURRENT





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Ordering Information :

Device	Packing
Part Number-BP	Bulk: 5Kpcs/Carton

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