



Micro Commercial Components

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

KBP3005G THRU KBP310G

3 Amp Bridge Rectifier 50 to 1000 Volts

Features

- Surge overload ratings 80 amperes peak
- High Reliability
- 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

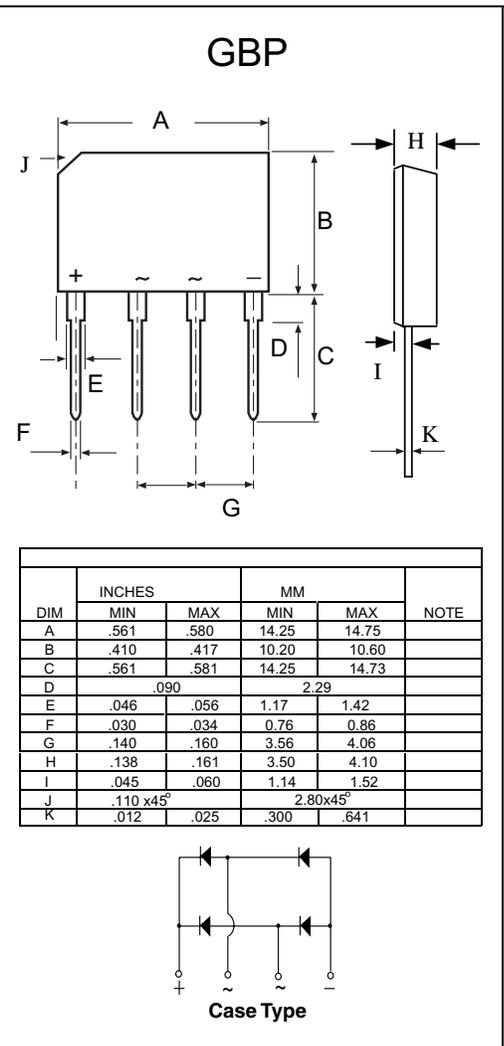
- I²t Rating for Fusing(t<8.3ms): 26 A²s
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

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

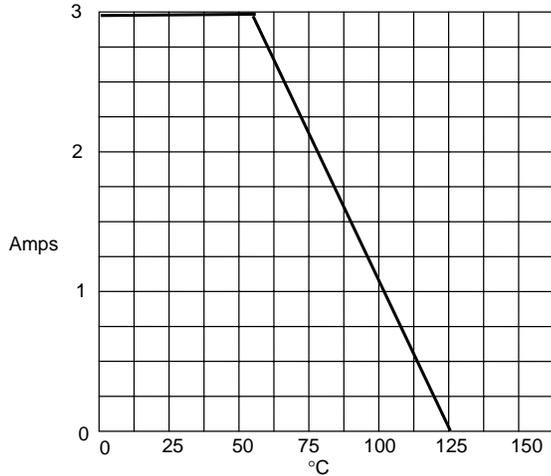
Average Forward Current	I _{F(AV)}	3.0A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V _F	1.1V	I _{FM} = 1.0A per element; T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10µA 1mA	T _J = 25°C T _J = 100°C

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



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Figure 1
Forward Derating Curve



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

Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

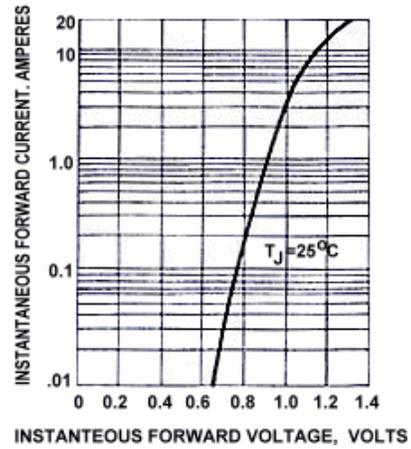


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

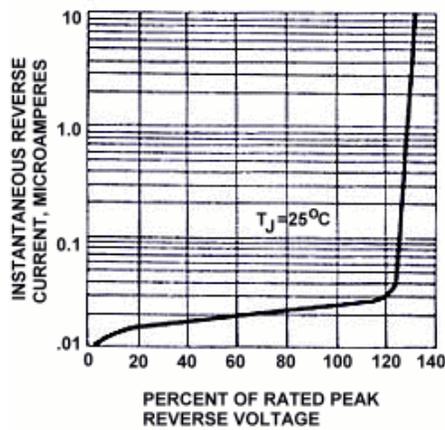
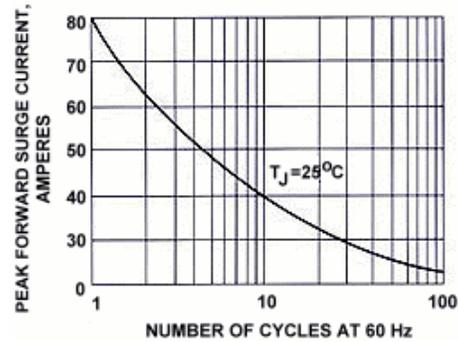


Fig. 4 - MAXIMUM FORWARD SURGE CURRENT





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Ordering Information

Device	Packing
(Part Number)-BP	Bulk: 25pcs/Tube ;1250pcs/Box; 5K/Ctn

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