

**Micro Commercial Components** 

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

## Features

- Surge overload ratings 80 amperes peak
- Lead: Silver Plated Cooper Lead
- Ideal for printed circuit board
- UL Recognized File # E165989 Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

### Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- I<sup>2</sup>t Rating for Fusing(t<8.3ms): 10 A<sup>2</sup>s

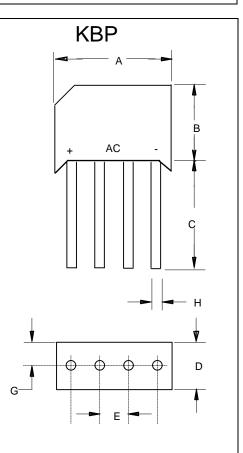
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP3005	KBP3005	50V	35V	50V
KBP301	KBP301	100V	70V	100V
KBP302	KBP302	200V	140V	200V
KBP304	KBP304	400V	280V	400V
KBP306	KBP306	600V	420V	600V
KBP308	KBP308	800V	560V	800V
KBP310	KBP310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

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	3.0A	$T_A = 55^{\circ}C$
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	$I_{FM} = 1.0A \text{ per}$ element; $T_A = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10µА 1mA	$T_{\rm J} = 25^{\circ}C$ $T_{\rm J} = 100^{\circ}C$

# **KBP3005** THRU **KBP310**

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



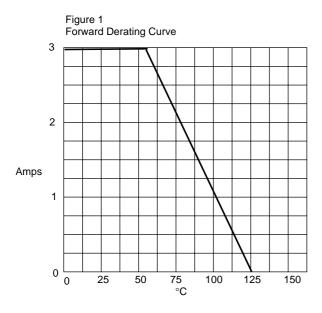
DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
А		.693		17.60			
В		.504		12.80			
С	.750		19.00				
D		.250		6.40			
ш	.150		3.80		3PL/TYP		
G	.125		3.20				
Н	.320		0.80				

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## KBP3005 THRU KBP310



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

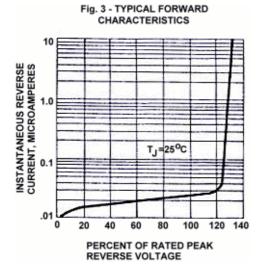
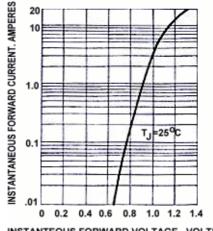
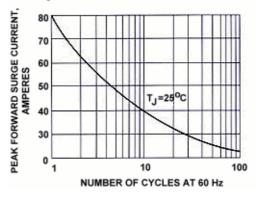


Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



INSTANTEOUS FORWARD VOLTAGE, VOLTS

Fig. 4 - MAXIMUM FORWARD SURGE CURRENT



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