

# KBP3005 THRU KBP310

## Features

- Surge overload ratings 80 amperes peak
- Ideal for printed circuit board

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

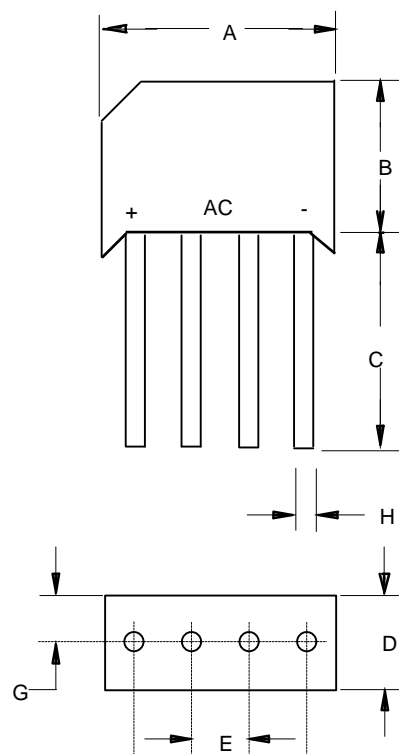
## Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

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

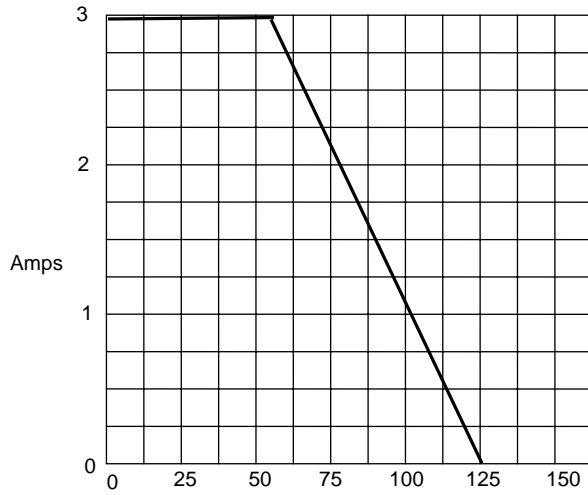
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	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 $\mu\text{A}$	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.693	---	17.60	
B	---	.504	---	12.80	
C	.750	---	19.00	---	
D	---	.250	---	6.40	
E	.150	---	3.80	---	3PL/TYP
G	.125	---	3.20	---	
H	.320		0.80		

Figure 1  
Forward Derating Curve



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

Fig. 3 - TYPICAL FORWARD  
CHARACTERISTICS

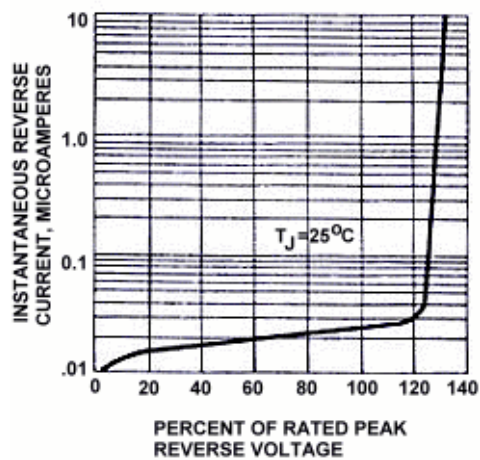


Fig. 2 - DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

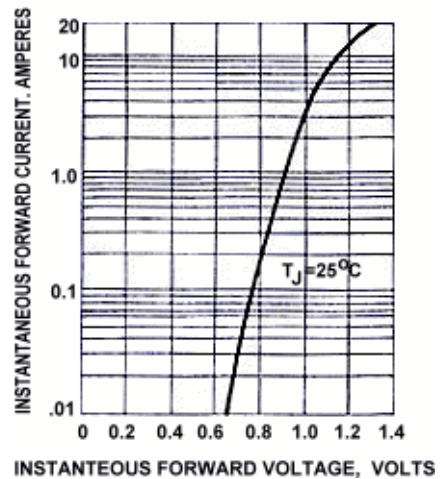


Fig. 4 - MAXIMUM FORWARD SURGE CURRENT

