Brückewell

KBP3005 THRU KBP310

3 Amp Bridge Rectifier 50 to 1000 Volts

Features

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

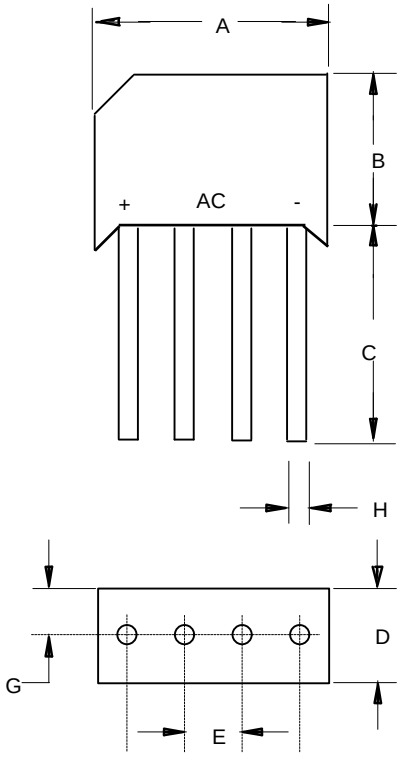
Maximum Ratings

- 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

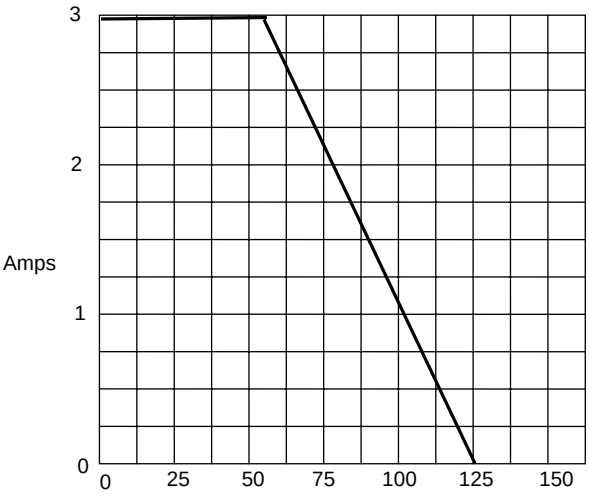
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	T_A = 55°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	T_J = 25°C T_J = 100°C



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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