



ZIBO MICRO COMMERCIAL  
COMPONENTS CORP.



ADD:ZhangLiu Road No.6  
Zhangdian Zibo Shandong  
P.C.:255000  
Tel:+86-533-3032000/3032005  
Fax:+86-533-3112884

# 2KBP005 THRU 2KBP10

## 2.0 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

### Features

- Halogen free available upon request by adding suffix "-HF"
- Glass Passivate Die Construction
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Ideal for Printed Circuit Boards
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

### Maximum Ratings

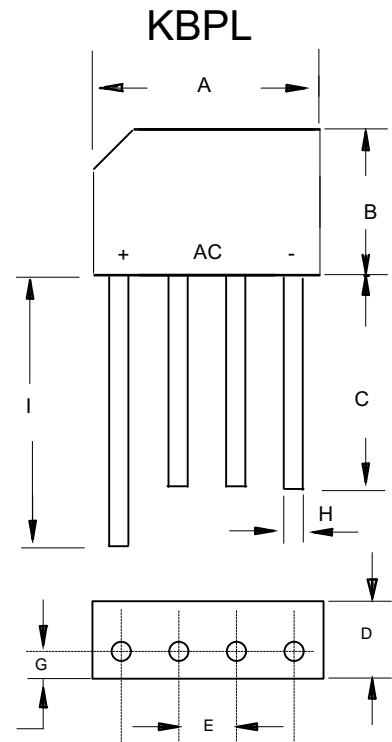
- # Operating Temperature: -55°C to +165°C
- # Storage Temperature: -55°C to +165°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
2KBP005	50V	35V	50V
2KBP01	100V	70V	100V
2KBP02	200V	140V	200V
2KBP04	400V	280V	400V
2KBP06	600V	420V	600V
2KBP08	800V	560V	800V
2KBP10	1000V	700V	1000V

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

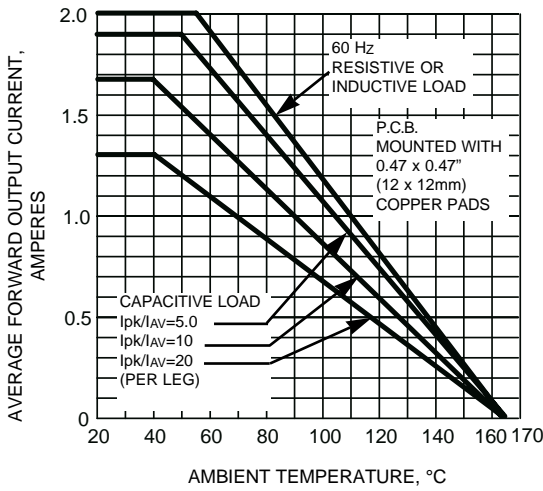
Average Forward Current	$I_{F(AV)}$	2.0A	$T_a = 50^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	60A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.2V	$I_F = 2.0\text{A per Element}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10 $\mu$ A 0.5mA	$T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$

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

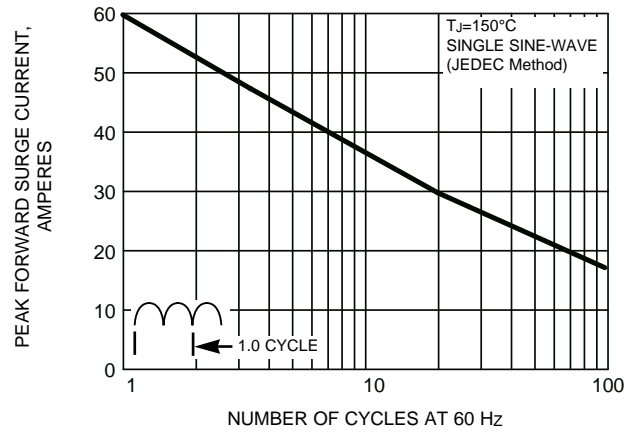


DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	.559	.60	14.22	15.24
B	.42	.46	10.60	11.68
C	.50	---	12.7	---
D	.146	.153	3.70	3.90
E	.142	.161	3.60	4.10
G	.046	.054	1.17	1.37
H	.028	.034	0.70	0.90
I	.561	---	14.25	---

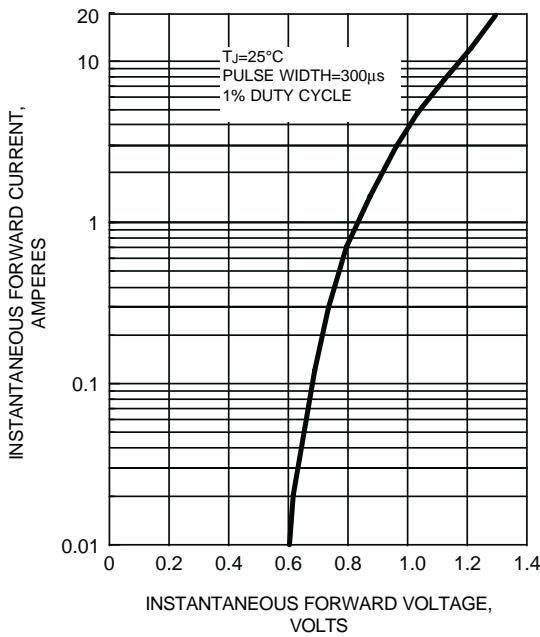
**FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT**



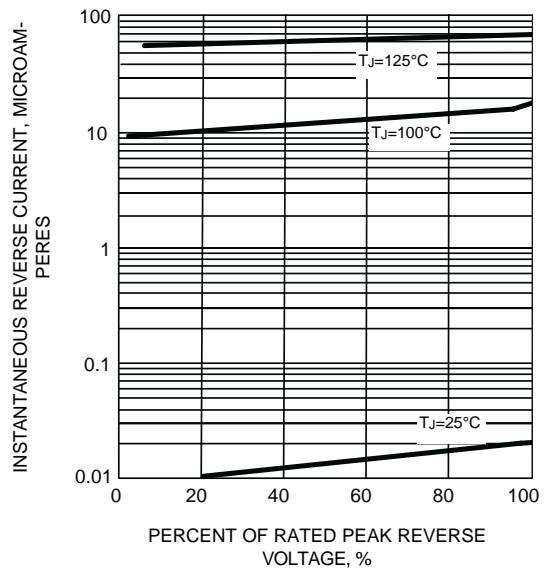
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



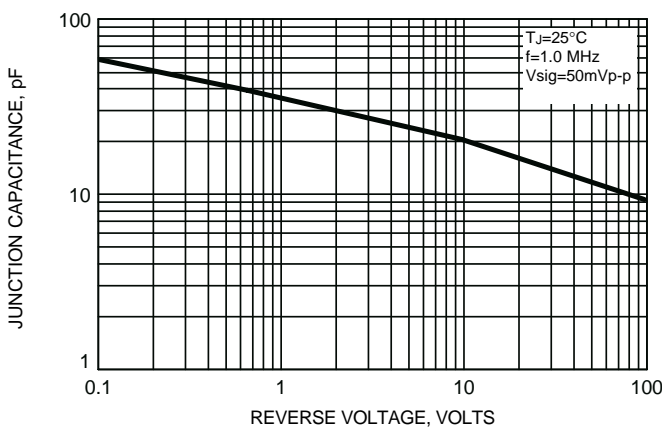
**FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG**



**FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG**





ZIBO MICRO COMMERCIAL  
COMPONENTS CORP.

### Ordering Information :

Device	Packing
Part Number-BP	Bulk: 1Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

**\*\*\*LIFE SUPPORT\*\*\***

ZBMCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of ZiBo Micro Commercial Components Corp.

**\*\*\*CUSTOMER AWARENESS\*\*\***

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuine parts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.