

**M·C·C**

Micro Commercial Components



Micro Commercial Components  
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## 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
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	$10\text{\AA}$ 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

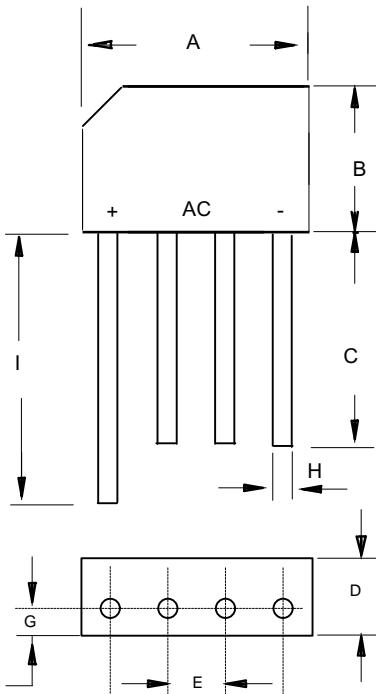
**2KBP005**

**THRU**

**2KBP10**

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

**KBPL**



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	---

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# 2KBP005~2KBP10

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FIG. 1 - DERATING CURVE OUTPUT  
RECTIFIED CURRENT

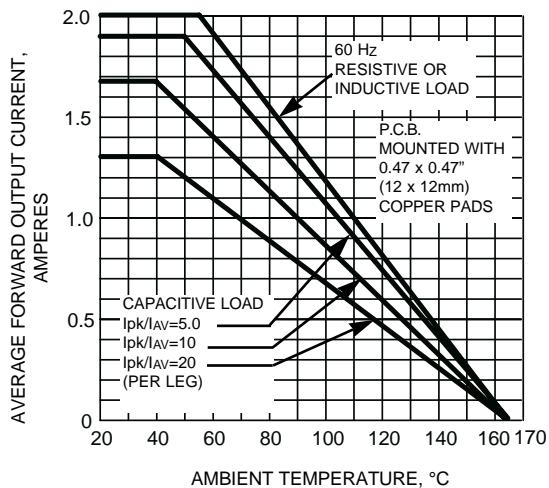


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK  
FORWARD SURGE CURRENT PER LEG

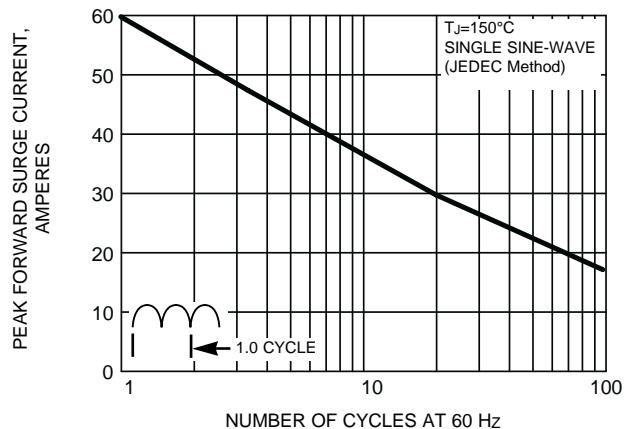


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS  
PER LEG

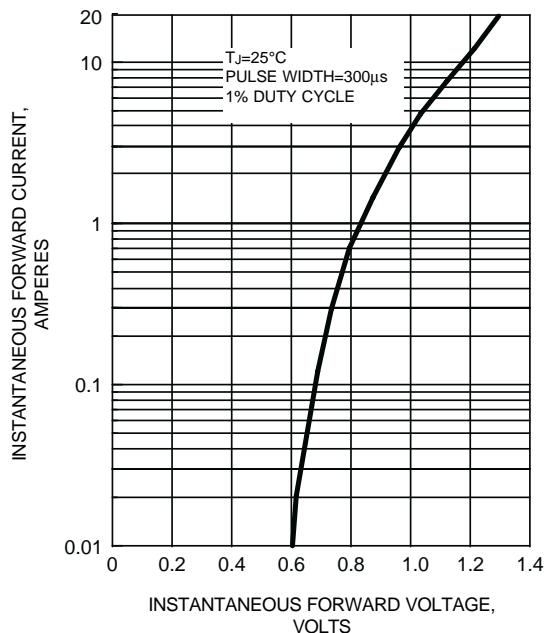


FIG. 4 - TYPICAL REVERSE LEAKAGE  
CHARACTERISTICS PER LEG

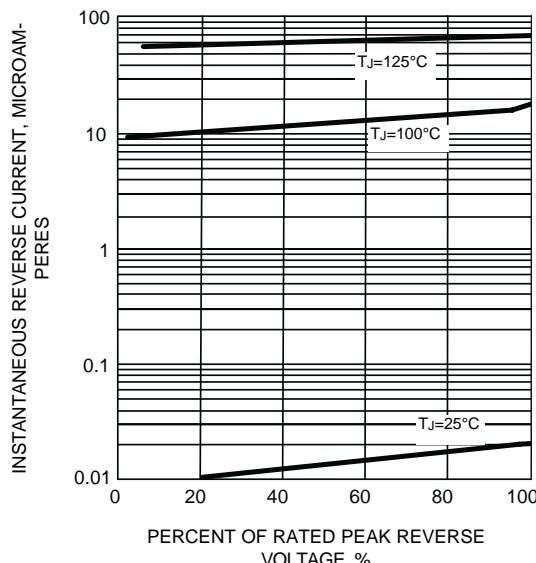
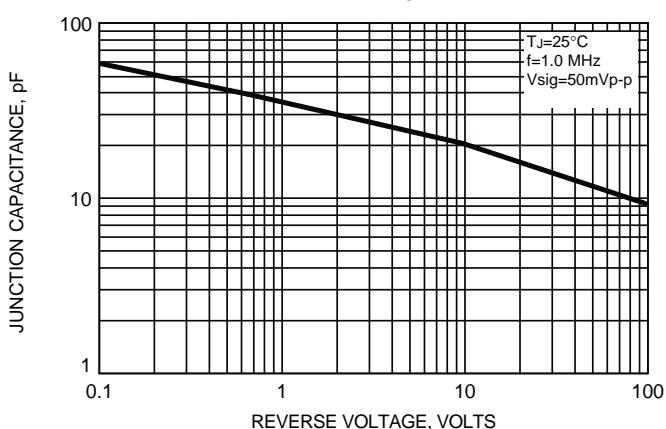


FIG. 5 - TYPICAL JUNCTION CAPACITANCE  
PER LEG





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## Ordering Information :

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

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

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