

**M·C·C**

Micro Commercial Components



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

**KBJL4005G  
THRU  
KBJL410G**

## Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

- Operating Junction Temperature: -55°C to + 150°C
- Storage Temperature: -55°C to +150°C
- Mounting Torque: 5.0 in-lbs Maximum
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBJL4005G	KBJL4005G	50V	35V	50V
KBJL401G	KBJL401G	100V	70V	100V
KBJL402G	KBJL402G	200V	140V	200V
KBJL404G	KBJL404G	400V	280V	400V
KBJL406G	KBJL406G	600V	420V	600V
KBJL408G	KBJL408G	800V	560V	800V
KBJL410G	KBJL410G	1000V	700V	1000V

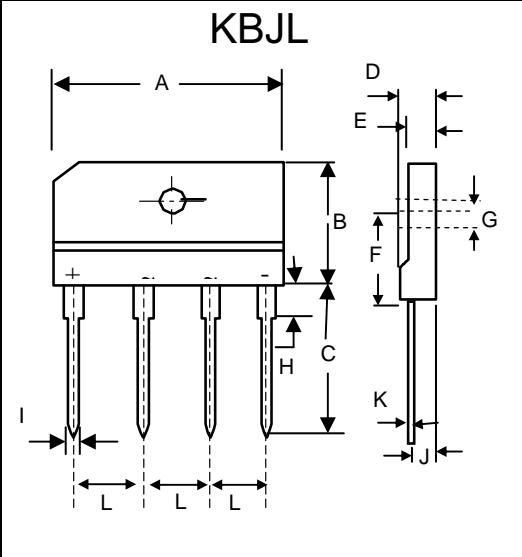
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4.0A	$T_C = 100^\circ C$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.0V	$I_{FM} = 2.0A$ per element; $T_A = 25^\circ C$ (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	$10\mu A$ $500\mu A$	$T_A = 25^\circ C$ $T_C = 100^\circ C$
$I^2t$ Rating for fusing	$I^2t$	$93A^2S$	( $t < 8.3ms$ )

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

2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

**4 Amp  
GLASS PASSIVATED  
BRIDGE RECTIFIERS  
50 to 1000 Volts**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.972	.996	24.70	25.30	
B	.394	.417	10.00	10.60	
C	.697	.736	17.70	18.70	
D	.142	.157	3.60	4.00	
E	.110	.126	2.80	3.20	
F	.217	.232	5.50	5.90	
G	.122	.134	3.10	3.40	
H	.669 typ		1.70 typ		
I	.035	.043	0.90	1.10	
J	.098	.114	2.50	2.90	
K	.016	.024	0.40	0.60	
L	.287	.303	7.30	7.70	

Case Type

<sup>TM</sup>

Micro Commercial Components

## Ordering Information

Device (Part Number)-BP	Packing Bulk;2.4K/Ctn
----------------------------	--------------------------

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

### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

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

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

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

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC 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.

[www.mccsemi.com](http://www.mccsemi.com)