

## 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 (Note1) ("P" Suffix designates Compliant. See ordering information)

## Maximum Ratings

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

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBJ6005G	50V	35V	50V
KBJ601G	100V	70V	100V
KBJ602G	200V	140V	200V
KBJ604G	400V	280V	400V
KBJ606G	600V	420V	600V
KBJ608G	800V	560V	800V
KBJ610G	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Rectified Current @ $T_C=110^{\circ}\text{C}$	$I_{F(AV)}$	6.0 A 2.8 A	with heatsink <sup>(1)</sup> without heatsink
Peak Forward Surge Current	$I_{FSM}$	170A	8.3ms, half sine
Maximum Forward Voltage	$V_F$	1.0V	$I_{FM} = 3.0\text{A};$ $T_A=25^{\circ}\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0uA 500uA	$T_J=25^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$
$I^2t$ Rating for fusing	$I^2t$	120 A <sup>2</sup> S	$t < 8.0\text{ms}$
Typical Thermal Resistance	$R_{JC}$	1.5 °C/W	Note 1
Typical Junction Capacitance	$C_J$	80pF	Measured at $F=1.0\text{MHz}$ $V_R=4.0\text{V}$

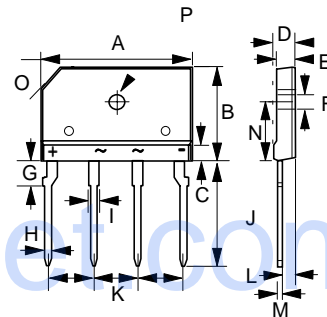
Note 1: Unit Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink

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

# KBJ6005G THRU KBJ610G

## 6.0 Amp Glass Passivated Bridge Rectifiers 50 to 1000 Volts

### KBJ



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.976	.992	24.80	25.20	
B	.579	.602	14.70	15.30	
C	.154	.161	3.90	4.10	
D	.173	.189	4.40	4.80	
E	.134	.150	3.40	3.80	
F	.122	.134	3.10	3.40	∅
G	.130	.146	3.30	3.70	
H	.035	.043	0.90	1.10	
I	.059	.075	1.50	1.90	
J	.677	.700	17.20	17.80	
K	.287	.303	7.30	7.70	
L	.098	.114	2.50	2.90	
M	.024	.031	0.60	0.80	
N	.366	.381	9.30	9.70	
O	.118X45°		3.0X45°		
P	.122	.134	3.10	3.40	∅



Micro Commercial Components

## Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1K/Box

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

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