

**Micro Commercial Components** 



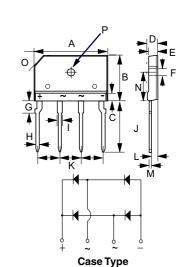
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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## KBJ4005G THRU KBJ410G

# 4 Amp GLASS PASSIVATED BRIDGE RECTIFIERS 50 to 1000 Volts

**KBJ** 



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.976	.992	24.80	25.20	
В	.579	.602	14.70	15.30	
O	.154	.161	3.90	4.10	
D	.173	.189	4.40	4.80	
Ш	.134	.150	3.40	3.80	
F	.122	.134	3.10	3.40	Ø
Ð	.130	.146	3.30	3.70	
I	.035	.043	0.90	1.10	
_	.059	.075	1.50	1.90	
٦	.669	.709	17.00	18.00	
K	.287	.303	7.30	7.70	
٦	.098	.114	2.50	2.90	
М	.024	.031	0.60	0.80	
Ν	.366	.381	9.30	9.70	
0	.118X45°		3.0X45°		
Р	.122	.134	3.10	3.40	Ø

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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
- UL Recognized File # E165989
- Mounting Torgue: 5.0 in-lbs Maximum

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
K BJ4005G	KBJ4005G	50V	35V	50V
KB J401G	KBJ401G	100V	70V	100V
KB J 402G	KBJ402G	200V	140V	200V
KBJ404G	KBJ404G	400V	280V	400V
KBJ406G	KBJ406G	600V	420V	600V
KB J408G	KBJ408G	800V	560V	800V
KB J410G	KBJ410G	1000V	700V	1000V

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

LIGGUITGAI VIIAI AGUGITƏ	uu5 @ Zu  (	r anicaa ariigi miag aheriiien		
Average Forward Current	$I_{F(AV)}$	4.0A	$T_{C} = 100^{\circ}C$	
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine	
Maximum Forward Voltage Drop Per Element	$V_{F}$	1.0V	$I_{FM}$ = 2.0A per element; $T_A$ = 25°C (Note 2)	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10μΑ 500μΑ	T <sub>A</sub> = 25°C T <sub>C</sub> = 100°C	
I <sup>2</sup> t Rating for fusing	l <sup>2</sup> t	93A <sup>2</sup> S	(t<8.3ms)	

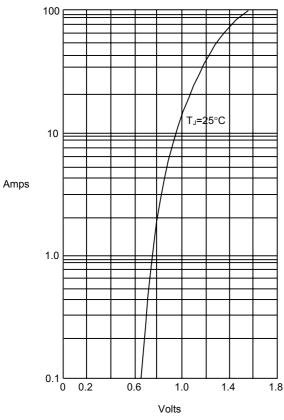
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

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

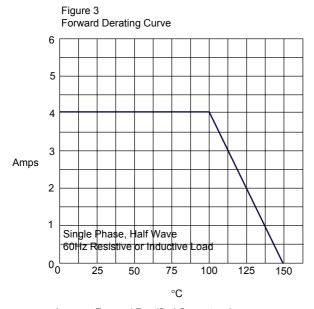


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Figure 1
Typical Forward Characteristics

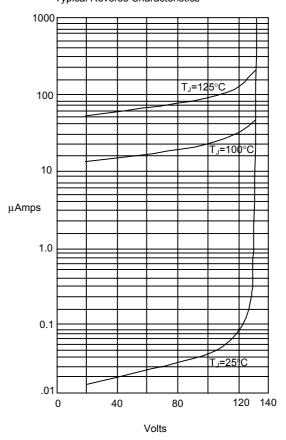


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

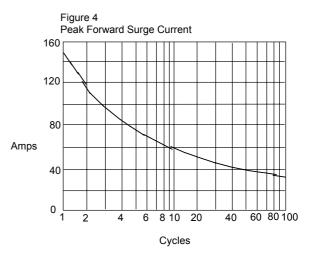


Average Forward Rectified Current - Amperes/ersus Ambient Temperature -  $^{\circ}$ C

Figure 2 Micro Commercial Components
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesersus
Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



#### **Ordering Information**

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

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