### NOT RECOMMENDED FOR NEW DESIGNS USE GBL4005-BPC01~GBL410-BPC01 Series

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**Micro Commercial Components** 

## Features

- Marking : type number
- High case dielectric strength
- Glass passivated chip junction
- High surge current capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Lead Free Finish/RoHS Compliant (NOTE 3)("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF

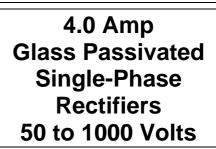
## aximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C UL Recognized File # E165989

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	MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage					
	GBL4005	50V	35V	50V					
	GBL401	100V	70V	100V					
	GBL402	200V	140V	200V					
	GBL404	400V	280V	400V					
	GBL406	600V	420V	600V					
	GBL408	800V	560V	800V					
	GBL410	1000V	700V	1000V					

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

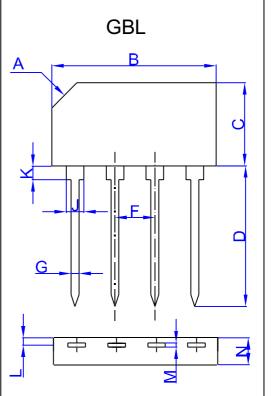
Maximum Average Forward Current	I <sub>F(AV)</sub>	4.0 A 3.0A	$T_{C} = 50^{O}C^{(1)}$ $T_{A} = 40^{O}C^{(2)}$
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine
Rating for fusing	l <sup>2</sup> t	93A <sup>2</sup> sec	t<8.3ms
Maximum Instantaneous Forward Voltage	$V_{F}$	1.0V	$I_{FM} = 2.0A;$ $T_A = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0uA 500uA	$T_{A} = 25^{\circ}C$ $T_{A} = 125^{\circ}C$
Typical Junction Capacitance GBL4005-404 GBL406-410	CJ	95pF 40pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V
Typical thermal resistance per leg	RθJA RθJL	22 <sup>0</sup> C/W 3.5 <sup>0</sup> C/W	



**GBL4005** 

THRU

**GBL410** 



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.125 X 0.125		3.17 X 3.17		X 45°
В	.768	.823	19.5	20.9	
С	.411	.453	10.4	11.5	
D	.682	.740	17.3	18.8	
F	.189	.209	4.80	5.30	
G	.0 35	.050	0.90	1.27	
J	.063	.098	1.60	2.50	
К	.060	.106	1.05	2.70	
L	.030	.031	0.76	1.20	
М	.016	.026	0.40	0.66	
Ν	.128	.146	3.25	3.70	

Note:

1. Unit mounted on 3.0x3.0x0.11" thick(7.5x7.5x0.3cm)Al. plate

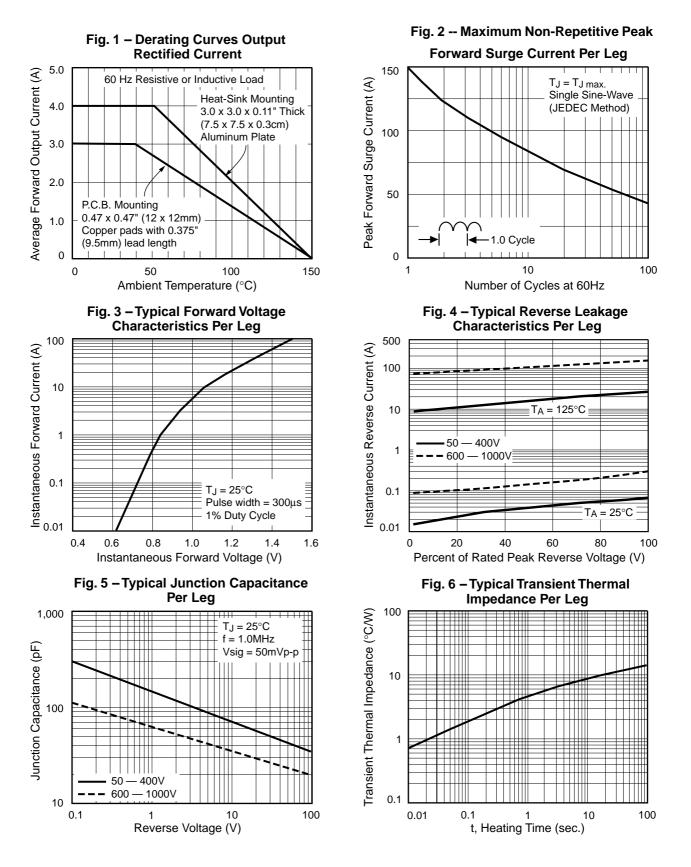
2.Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5x0.5"(12x12mm) copper pads

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

## www.mccsemi.com



# GBL4005 thru GBL410



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### **Ordering Information :**

Device	Packing	
Part Number-BP	Bulk: 4.4Kpcs/Carton	

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

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