

Features

- · Glass Passivated Chip Junction
- · High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/Rohs Compliant (Note 1) ("P"Suffix Designates RoHS Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- UL Recognized File # E502650

Maximum Ratings

• Operating Junction Temperature Range: -55°C to +150°C

• Storage Temperature Range: -55°C to +150°C

• Typical Thermal Resistance : 22°C/W Junction to Ambient

• Typical Thermal Resistance : 3.5°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBL4005-BPC01	GBL4005	50V	35V	50V
GBL401-BPC01	GBL401	100V	70V	100V
GBL402-BPC01	GBL402	200V	140V	200V
GBL404-BPC01	GBL404	400V	280V	400V
GBL406-BPC01	GBL406	600V	420V	600V
GBL408-BPC01	GBL408	800V	560V	800V
GBL410-BPC01	GBL410	1000V	700V	1000V

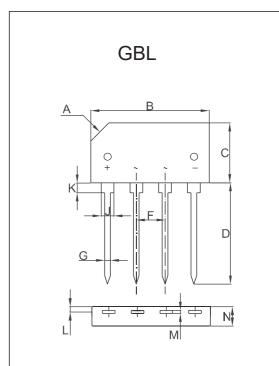
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	I _{F(AV)}	4.0A 3.0A	$T_C = 50^{\circ}C^{(2)}$ $T_A = 40^{\circ}C^{(3)}$
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, Half Sine
Rating for fusing	l²t	93 A ² S	t<8.3ms
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 2.0A; T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 500μA	T _A = 25°C T _A = 125°C
Typical Junction Capacitance GBL4005-404 GBL406-410	С	95pF 40pF	Measured At 1.0MHz, V _R =4.0V

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a

2. Unit Mounted On 3.0x3.0x0.11" Thick(7.5x7.5x0.3cm) Al. Plate.

4.0 Amp Glass Passivated Single-Phase Rectifiers 50 to 1000 Volts



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.118)	(0.118	3.0	X 3.0	X 45°	
В	0.756	0.835	19.20	21.20		
С	0.413	0.453	10.50	11.50		
D	0.512	0.591	13.00	15.00		
F	0.193	0.201	4.90	5.10		
G	0.039	0.047	1.00	1.20		
J	0.047	0.071	1.20	1.80		
K	0.079	0.118	2.00	3.00		
L	0.035	0.043	0.90	1.10		
M	0.020	0.027	0.50	0.70		
N	0.118	0.157	3.00	4.00		

^{3.} Unit Mounted On P.C.B. At 0.375"(9.5mm) Lead Length And 0.5x0.5"(12x12mm) Copper Pads



Curve Characteristics

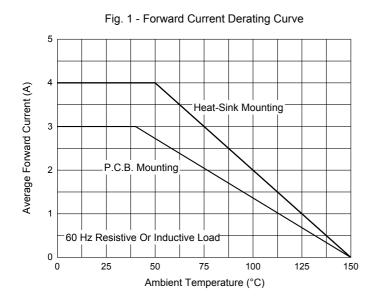


Fig. 3 - Typical Instantaneous Forward Characteristics

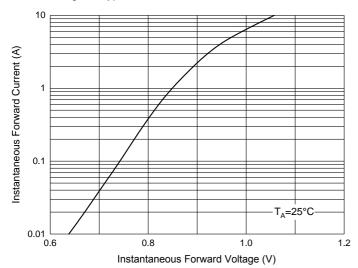
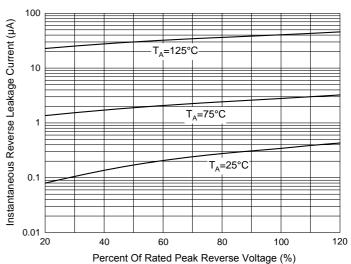


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

150
135
120
90
90
75
90
15
8.3 ms Single Half Sine-Wave
100
Number Of Cycles At 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics



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Ordering Information

Device	Packing	
GBL4005-BPC01~GBL410-BPC01	Tube:22pcs/Tube,1100pcs/Box,4400pcs/Ctn;	

Note : Adding "-HF" Suffix For Halogen Free, eg. GBL4005-BPC01 ~GBL410-BPC01-HF

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