



Micro Commercial Components



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# GBU15A THRU GBU15M

## Features

- UL Recognized File # E165989
- Glass Passivated Chip junction
- High Surge Overload Rating
- 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)
- Halogen free available upon request by adding suffix "-HF"

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 2.2°C/W Junction to Case(Heatsink)
- Mounting Torque: 5.0 in-lbs Maximum

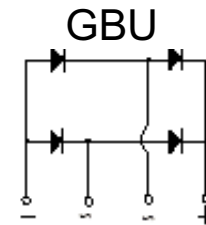
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU15A	50V	35V	50V
GBU15B	100V	70V	100V
GBU15D	200V	140V	200V
GBU15G	400V	280V	400V
GBU15J	600V	420V	600V
GBU15K	800V	560V	800V
GBU15M	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

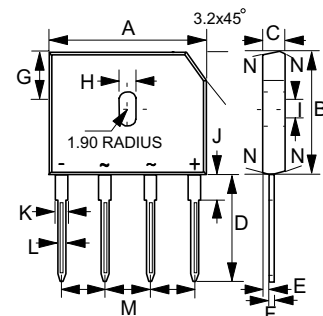
Maximum Average Forward Current (with heatsink)	$I_{F(AV)}$	15 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	240A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.1V	At 7.5A DC
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0uA 500uA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	70pF	Measured at 1.0MHz, $V_R=4.0V$
$I^2t$ Rating for Fusing	$I^2t$	240A <sup>2</sup> S	$t < 8.3ms$

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

## 15 Amp Single Phase Glass Passivated Bridge Rectifiers 50 to 1000 Volts



Case Style



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.860	.880	21.80	22.30	
B	.720	.740	18.30	18.80	
C	.130	.142	3.30	3.60	
D	.690	.717	17.50	18.20	
E	.030	.039	0.76	1.00	
F	.018	.024	0.46	0.60	
G	.290	.310	7.40	7.90	
H	.140	.160	3.50	4.10	
I	.065	.085	1.65	2.16	
J	.060	.096	1.52	2.45	
K	.077	.098	1.95	2.50	
L	.040	.050	1.02	1.27	
M	.190	.210	4.83	5.33	
N	7.0° TYPICAL				

GBU15A thru GBU15M

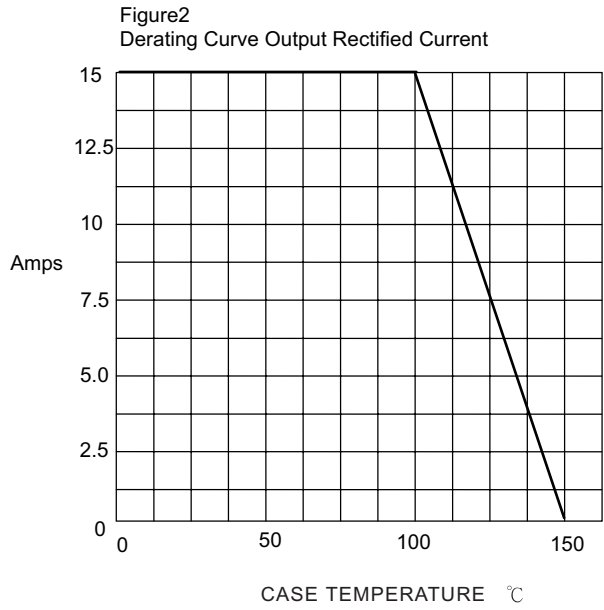
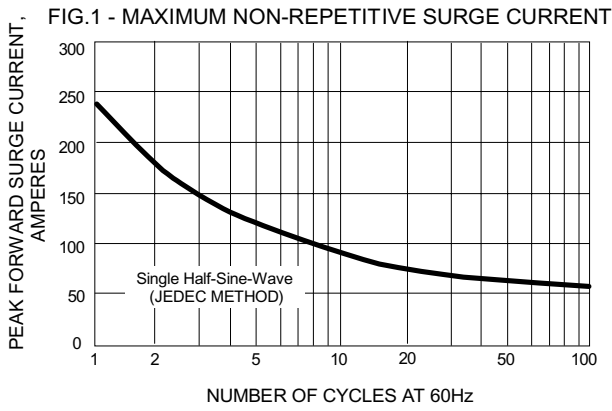
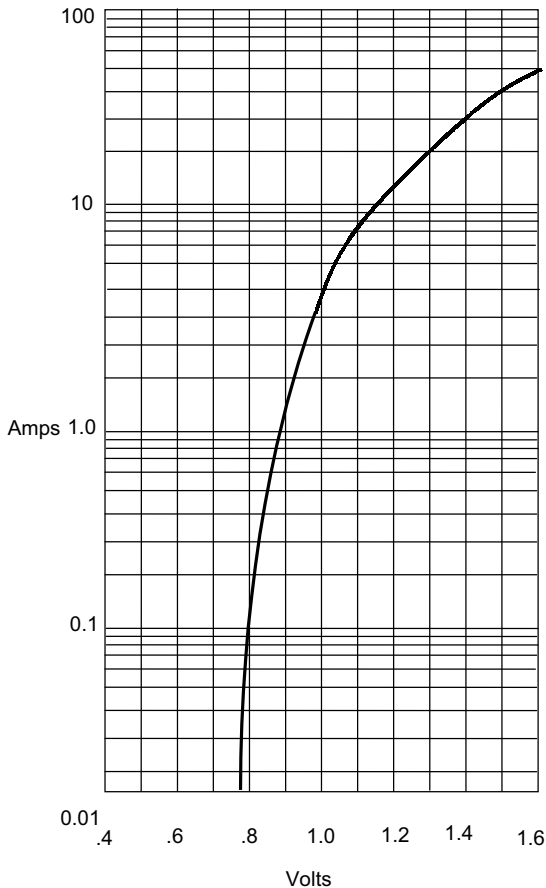
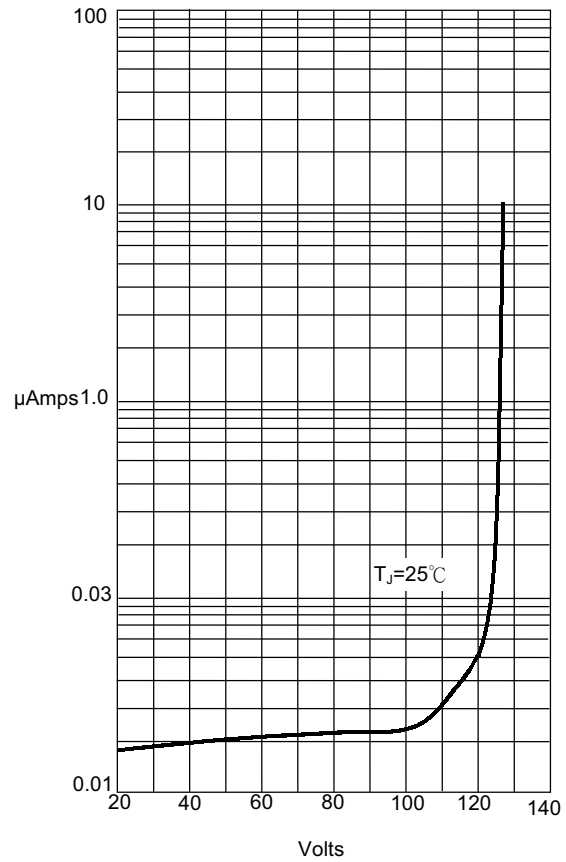


Figure 3  
Typical Forward Characteristics



Instantaneous Forward Current -Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Current - MicroAmperes versus  
Percent of Rated Peak Reverse Voltage - Volts



TM

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## 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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