



Micro Commercial Components



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Features

- UL Recognized File # E165989
- Glass Passivated Chip junction
- High Surge Overload Rating
- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)

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

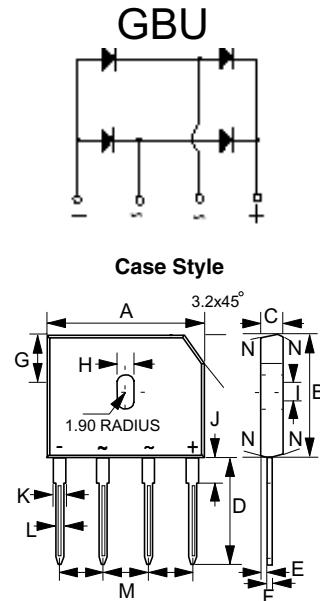
Electrical Characteristics @ 25°C Unless Otherwise Specified

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, $V_R=4.0\text{V}$
I^2t Rating for Fusing	I^2t	240A ² S	$t < 8.3\text{ms}$

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

**GBU15A
THRU
GBU15M**

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



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.860	.880	21.80	22.30	
B	.720	.740	18.30	18.80	
C	.130	.140	3.30	3.56	
D	.690	.710	17.50	18.00	
E	.030	.039	0.76	1.00	
F	.018	.022	0.46	0.56	
G	.290	.310	7.40	7.90	
H	.140	.160	3.50	4.10	
I	.065	.085	1.65	2.16	
J	.089	.108	2.25	2.75	
K	.077	.093	1.95	2.35	
L	.040	.050	1.02	1.27	
M	.190	.210	4.83	5.33	
N			7.0° TYPICAL		

GBU15A thru GBU15M

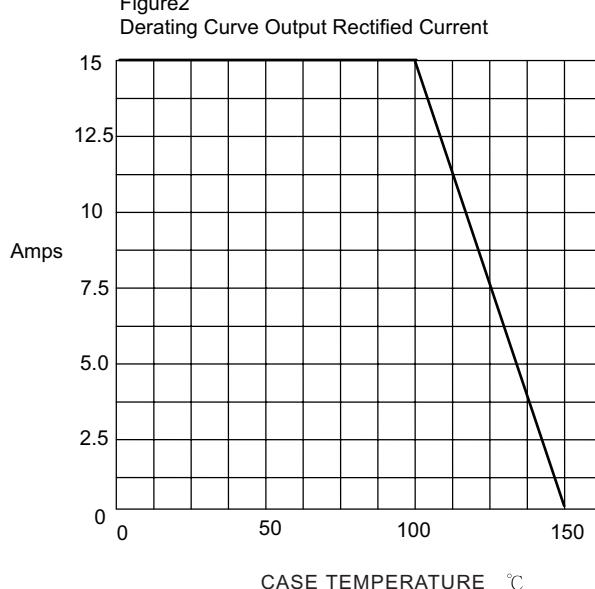
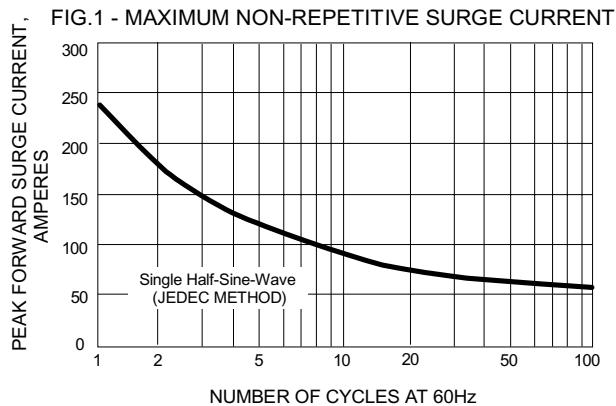
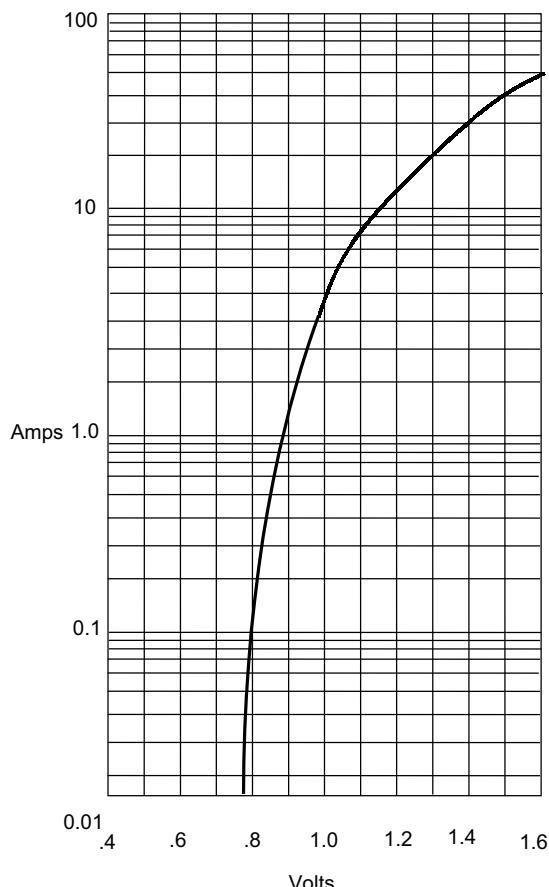
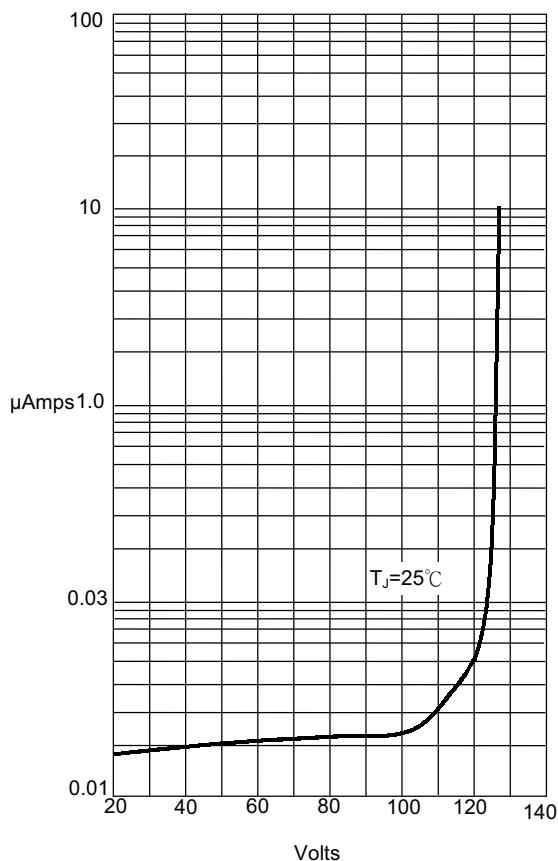


Figure 3
Typical Forward Characteristics



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

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