



Micro Commercial Components



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# GBU20005 THRU GBU2010

## Features

- Glass Passivated Chip junction
- High Surge Forward current capability
- 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

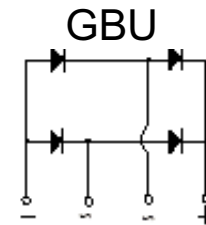
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU20005	50V	35V	50V
GBU2001	100V	70V	100V
GBU2002	200V	140V	200V
GBU2004	400V	280V	400V
GBU2006	600V	420V	600V
GBU2008	800V	560V	800V
GBU2010	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

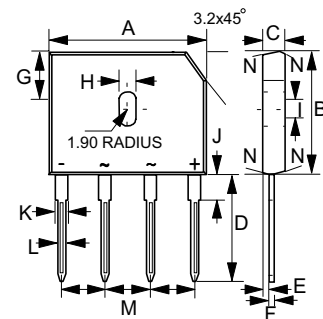
Maximum Average Forward Current (with heatsink)	$I_{F(AV)}$	20 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	240A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.1V	$I_{FM}=10A$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0uA 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	$I^2t$	239A <sup>2</sup> S	$t < 8.3ms$

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

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



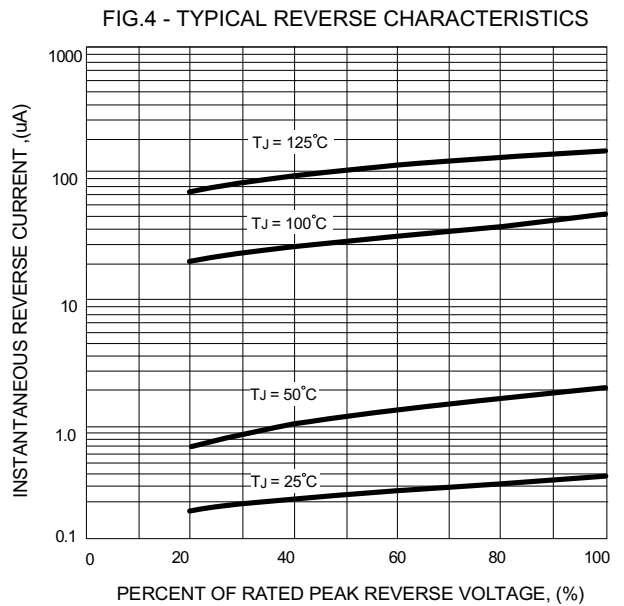
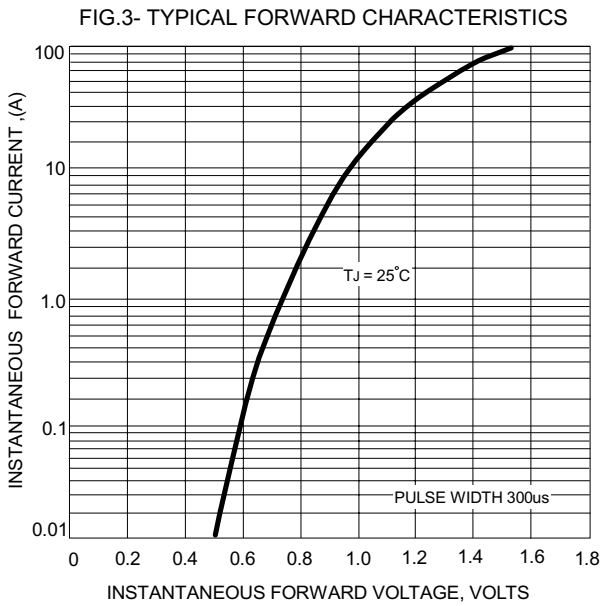
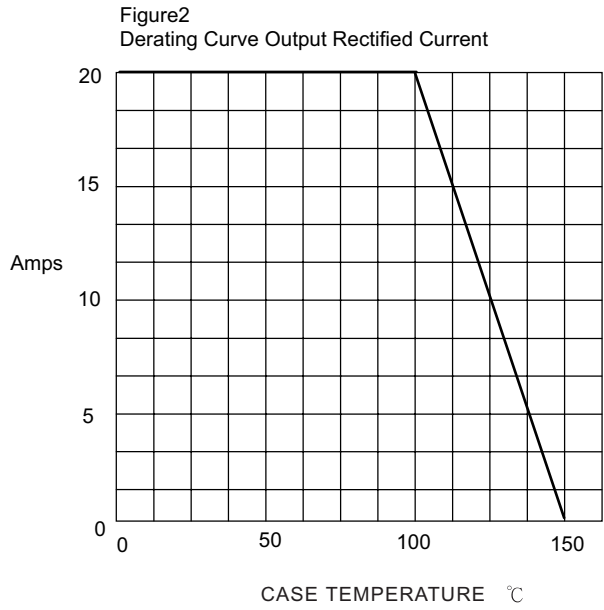
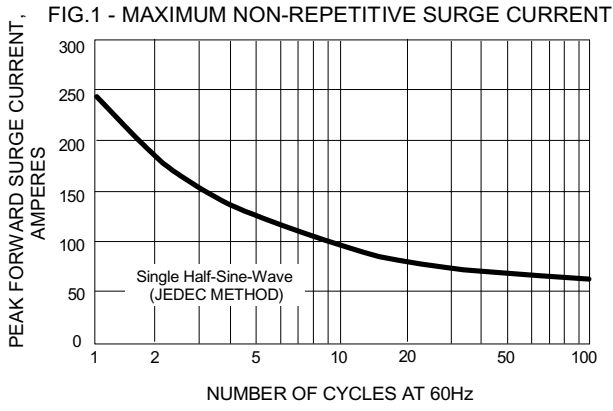
Case Style



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				

## GBU20005 thru GBU2010





## 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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