Micro Commercial Components

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GBU20005 THRU GBU2010

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

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

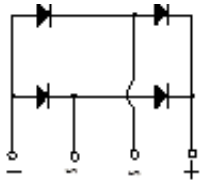
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU20005	50V	35V	50V
GBU2001	100V	70V	100V
GBU2002	200V	140V	200V
GBU2004	400V	280V	400V
GBU2006	600V	420V	600V
GBU2008	800V	560V	800V
GBU2010	1000V	700V	1000V

Electrical Characteristics @ 25℃ Unless Otherwise Specified

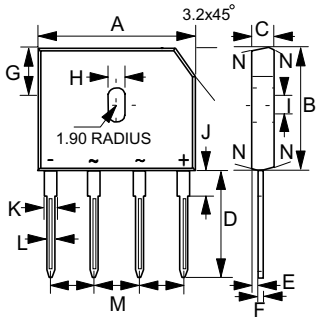
Maximum Average Forward Current (with heatsink)	$I_{F(AV)}$	20 A	T_C = 100℃
Peak Forward Surge Current	I_{FSM}	240A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	I_{FM}=10A T_A = 25℃
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 500uA	T_A = 25℃ T_A = 125℃
Typical Junction Capacitance	C_J	70pF	Measured at 1.0MHz, V_R=4.0V
I^2t Rating for Fusing	I^2t	239A^2S	t<8.3ms

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

GBU



Case Style



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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

FIG.1 - MAXIMUM NON-REPETITIVE SURGE CURRENT

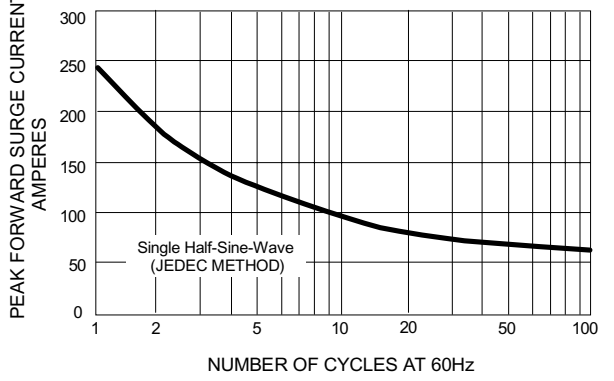


Figure2
Derating Curve Output Rectified Current

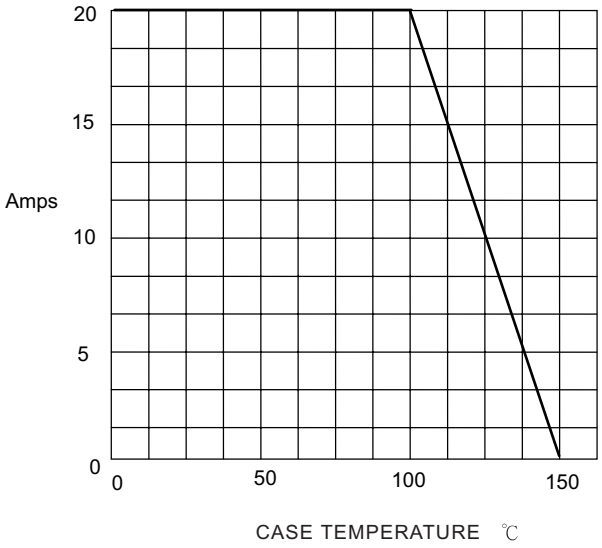


FIG.3- TYPICAL FORWARD CHARACTERISTICS

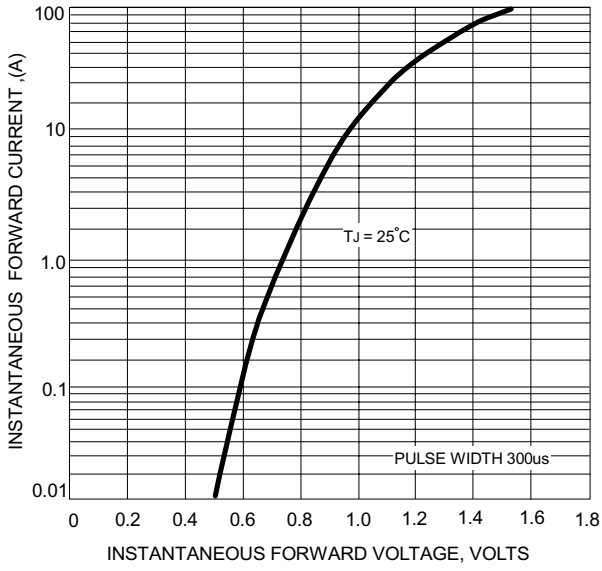
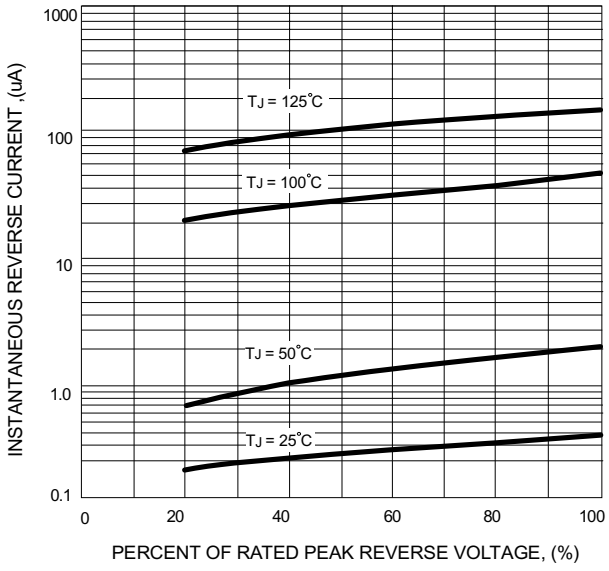


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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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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