



Micro Commercial Components



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GBU25005 THRU GBU2510

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
- Max Thermal Resistance: 1.0°C/W Junction to Case (Heatsink)
- Mounting Torque: 5.0 in-lbs Maximum

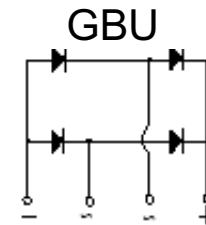
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU25005	50V	35V	50V
GBU2501	100V	70V	100V
GBU2502	200V	140V	200V
GBU2504	400V	280V	400V
GBU2506	600V	420V	600V
GBU2508	800V	560V	800V
GBU2510	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

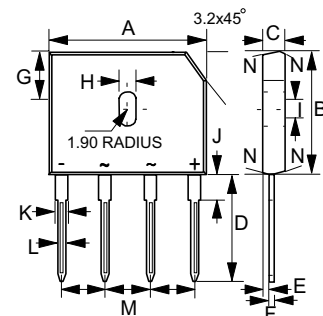
Maximum Average Forward Current (with heatsink)	$I_{F(AV)}$	25 A	$T_C = 98^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM}=12.5A$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10uA	$T_A = 25^\circ\text{C}$
I^2t Rating for Fusing	I^2t	510A ² S	$t < 8.3\text{ms}$

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

25 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				

GBU25005 thru GBU2510

Fig. 1 - Typical Instantaneous Forward Characteristics

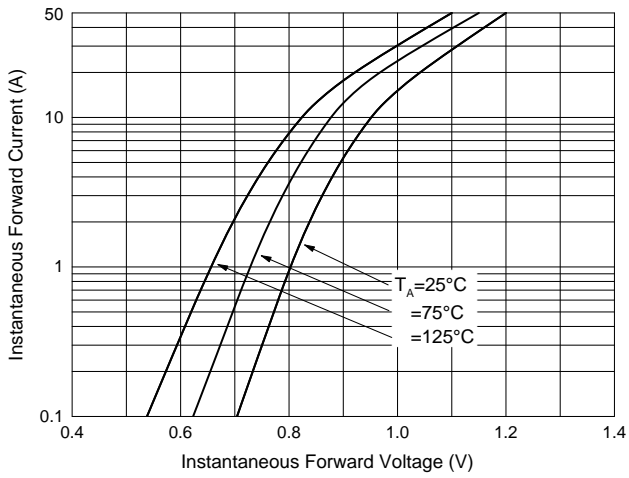


Fig. 2 - Typical Reverse Leakage Characteristics

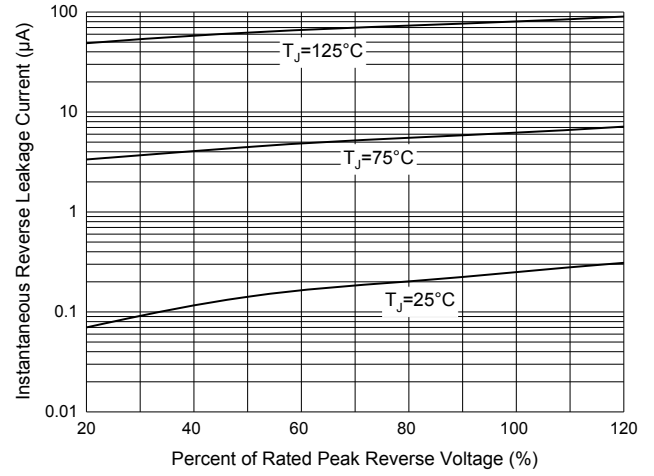


Fig. 3 - Forward Current Derating Curve

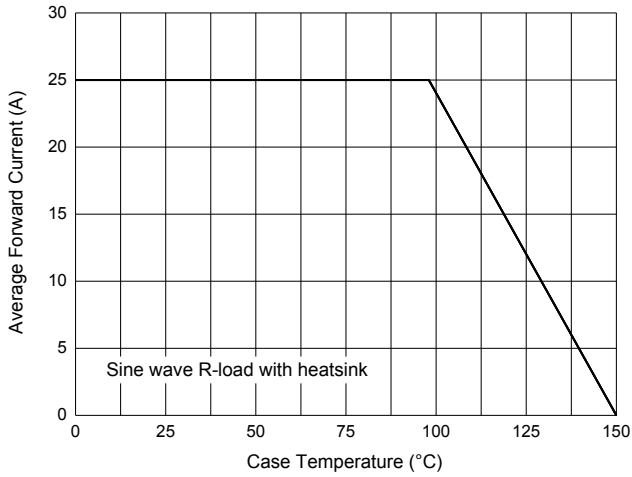
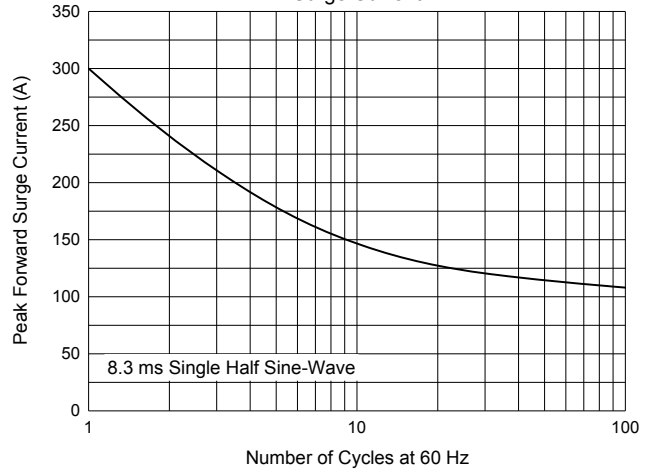


Fig. 4 - Maximum Non-Repetitive Peak Forward Surge Current





Ordering Information

Device	Packing
(Part Number)-BP	1K/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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