

Micro Commercial Components



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GBU25005 THRU GBU2510

25 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"

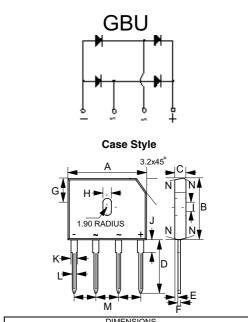
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Max Thermal Resistance:1.0°C/W Junction to Case(Heatsink)
- Mounting Torgue: 5.0 in-lbs Maximum

MCC Part Number	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking Voltage
	Voltage	i i i i i i i i i i i i i i i i i i i	
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°C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.1V	I _{FM} =12.5A T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10uA	T _A = 25°℃
I ² t Rating for Fusing	l ² t	510A ² S	t<8.3ms

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



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.860	.880	21.80	22.30	
В	.720	.740	18.30	18.80	
С	.130	.142	3.30	3.60	
D	.690	.717	17.50	18.20	
Е	.030	.039	0.76	1.00	
F	.018	.024	0.46	0.60	
G	.290	.310	7.40	7.90	
Н	.140	.160	3.50	4.10	
	.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				



Number of Cycles

GBU25005 thru GBU2510

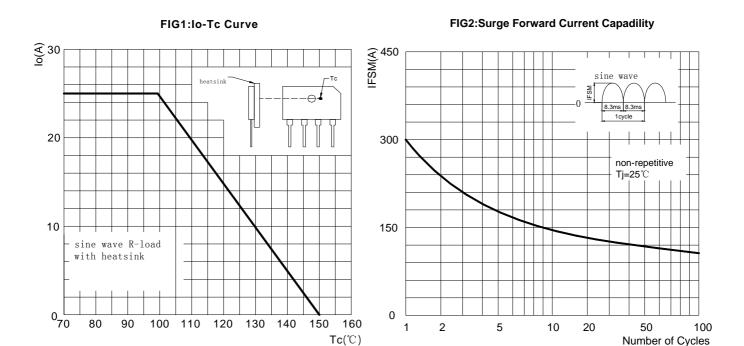




FIG4:Typical Reverse Characteristics R(uA) 100 Tj=150°C 20 10 10 5.0 1.0 Ta=25℃ 1.0 Tj=25℃ 0.1 0.5 0.2 0.01 0.1 0.4 0.6 0.8 1.0 1.2 0 20 40 60 80 100 VF(V) Voltage(%)



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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