



Micro Commercial Components



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# GBU4JL THRU GBU4KL

## Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Glass Passivated Chip Junction
- High Surge Overload Rating
- 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
- UL Recognized File # E165989
- Mounting Torque: 5in-lbs.

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU4JL	GBU4JL	600V	420V	600V
GBU4KL	GBU4KL	800V	560V	800V

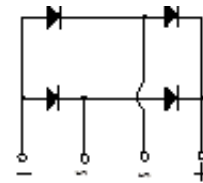
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4 A	$T_C = 108^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	0.89V 0.90V	$I_{FM}=2A \quad T_a = 25^\circ\text{C}$ $I_{FM}=4A \quad T_a = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10 $\mu\text{A}$	$T_a = 25^\circ\text{C}$
Typical thermal resistance per leg	$R_{\theta JA}$ $R_{\theta JC}$	23°C/W 5.5°C/W	
$I^2t$ Rating for fusing	$I^2t$	93A <sup>2</sup> S	1ms<t<8.3ms

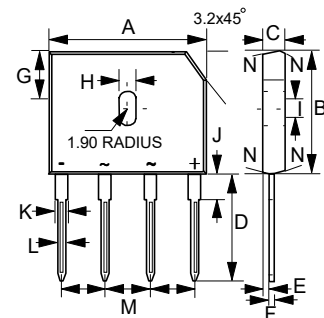
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

## 4 Amp Single Phase Glass Passivated Bridge Rectifier 600 to 800 Volts

### GBU



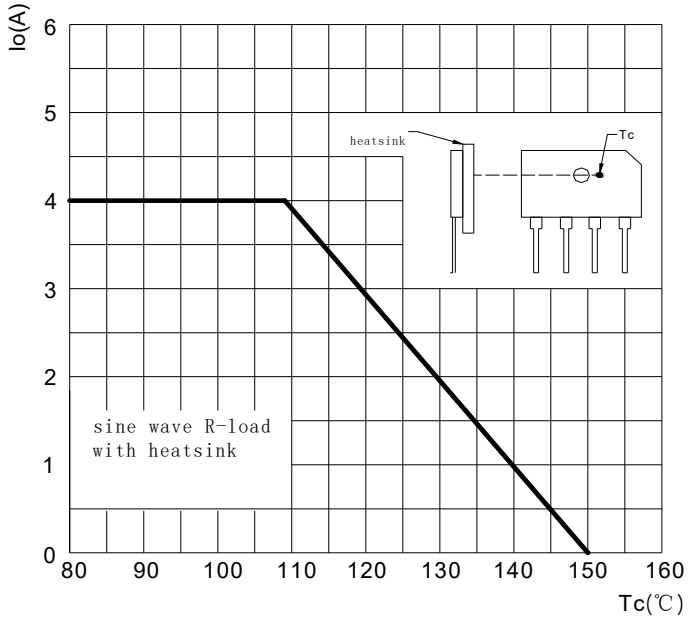
Case Style



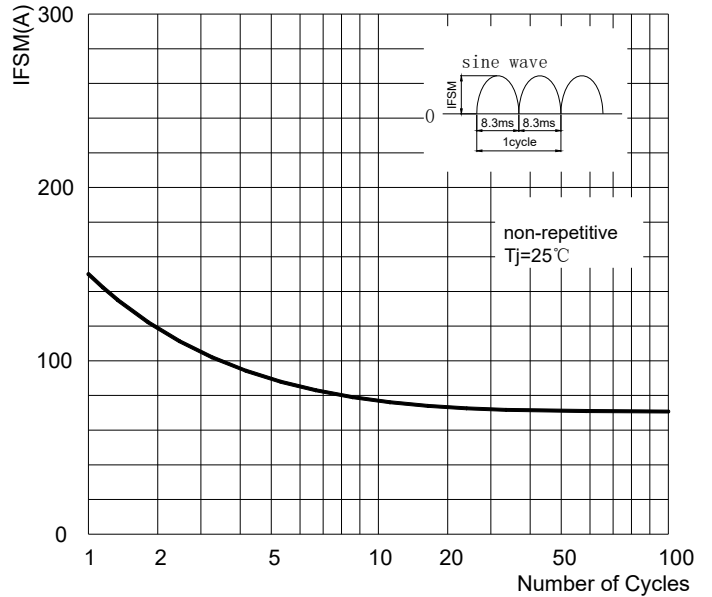
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.860	.880	21.80	22.30	
B	.720	.740	18.30	18.80	
C	.130	.142	3.30	3.60	
D	.690	.717	17.50	18.20	
E	.030	.039	0.76	1.00	
F	.018	.024	0.46	0.60	
G	.290	.310	7.40	7.90	
H	.140	.160	3.50	4.10	
I	.065	.085	1.65	2.16	
J	.060	.096	1.52	2.45	
K	.077	.098	1.95	2.50	
L	.040	.050	1.02	1.27	
M	.190	.210	4.83	5.33	
N	7.0° TYPICAL				

### Characteristics(Typical)

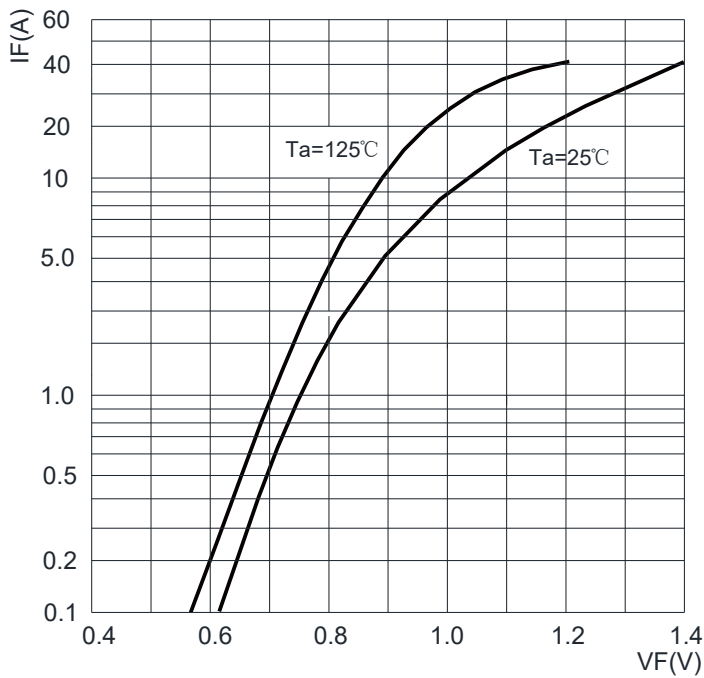
**FIG1:Io-Tc Curve**



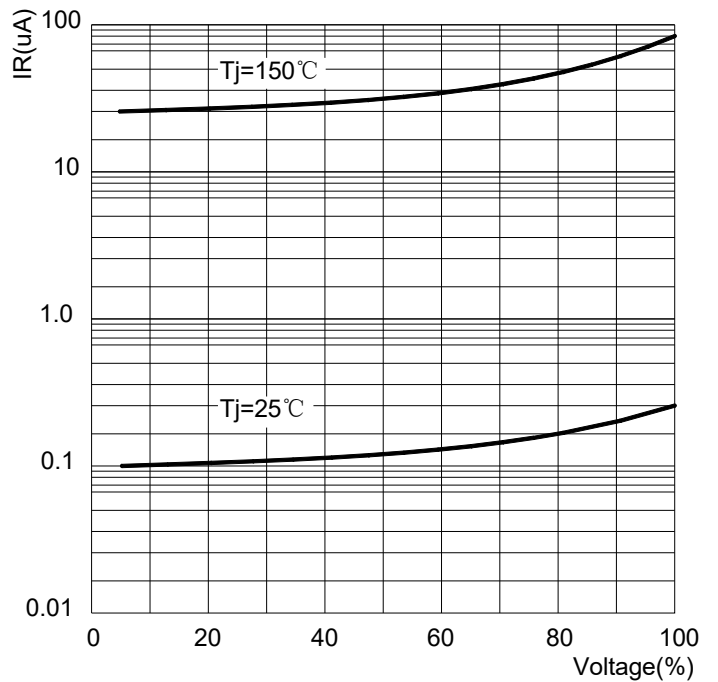
**FIG2:Surge Forward Current Capadility**



**FIG3: Forward Voltage**



**FIG4:Typical Reverse Characteristics**





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## Ordering Information :

Device	Packing
Part Number-BP	Bulk: 1Kpcs/Box

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

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