Micro Commercial Components
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GBL2005 THRU GBL210

2.0 Amp Glass Passivated Single-Phase Rectifiers 50 to 1000 Volts

Features

- Marking : type number
- High case dielectric strength
- Glass passivated chip junction
- High surge current capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS 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
- UL Recognized File # E165989

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBL2005	50V	35V	50V
GBL201	100V	70V	100V
GBL202	200V	140V	200V
GBL204	400V	280V	400V
GBL206	600V	420V	600V
GBL208	800V	560V	800V
GBL210	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

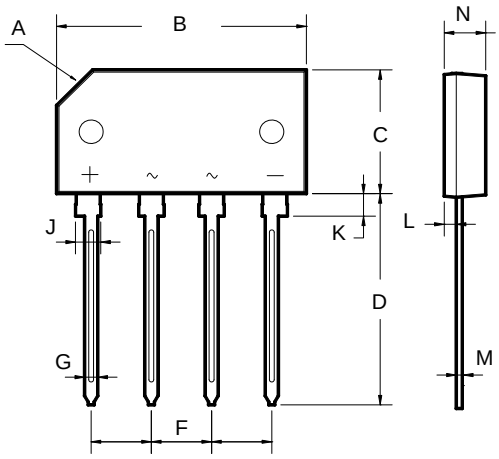
Maximum Average Forward Current	$I_{F(AV)}$	2.0 A	T_A = 25°C
Peak Forward Surge Current	I_{FSM}	80A	8.3ms, half sine
Rating for fusing	I^2t	26.6 A^2sec	1ms<t<8.3ms
Maximum Instantaneous Forward Voltage	V_F	1.05V	I_{FM} = 1.0A;(Note2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10uA	T_A = 25°C
Thermal resistance per leg	R θ JA R θ JL	47°C/W 10°C/W	

Note:

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

2.Pulse measurement, Rating of per diode

GBL



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.118X0.118		3.0X3.0		X 45°
B	.756	.835	19.2	21.2	
C	.413	.453	10.5	11.5	
D	.512	.591	13.0	15.0	
F	.193	.201	4.90	5.10	
G	.039	.047	1.00	1.20	
J	.047	.071	1.20	1.80	
K	.079	.118	2.00	3.00	
L	.035	.043	0.90	1.10	
M	.020	.027	0.50	0.70	
N	.118	.157	3.00	4.00	

GBL2005 thru GBL210

Characteristics(Typical)

FIG1:Io-Ta Curve

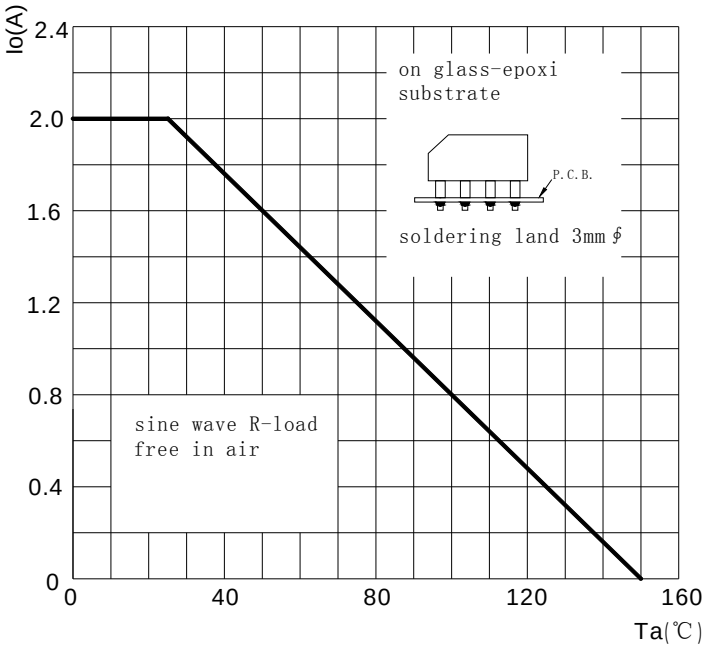


FIG2:Surge Forward Current Capadility

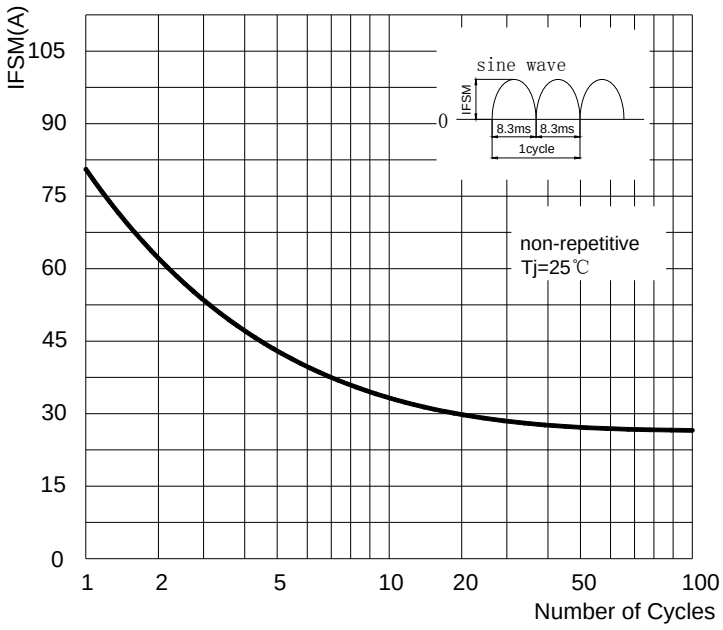


FIG3: Forward Voltage

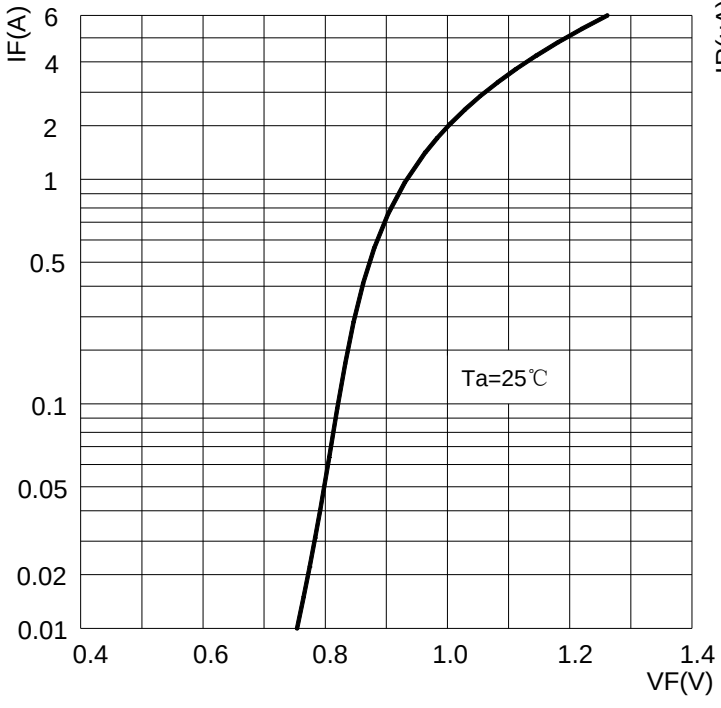
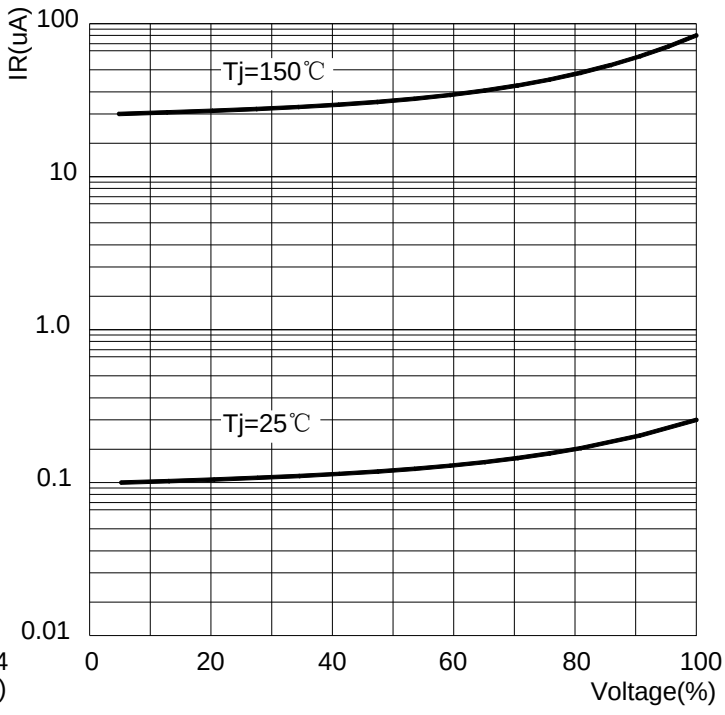


FIG4:Typical Reverse Characteristics



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Ordering Information :

Device	Packing
(Part Number)-BP	Bulk: 4.4Kpcs/Carton

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

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