Micro Commercial Components

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GBJA6005 THRU GBJA610

6 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

Features

- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- High surge forward current capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Mounting Torque: 0.5 N•m
- UL Recognized File # E165989

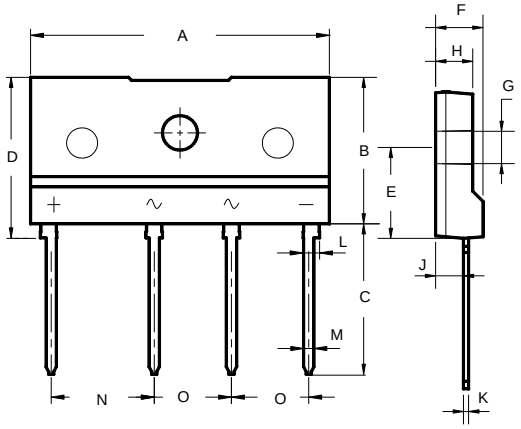
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJA6005	GBJA6005	50V	35V	50V
GBJA601	GBJA601	100V	70V	100V
GBJA602	GBJA602	200V	140V	200V
GBJA604	GBJA604	400V	280V	400V
GBJA606	GBJA606	600V	420V	600V
GBJA608	GBJA608	800V	560V	800V
GBJA610	GBJA610	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6 A	Tc = 100°C
Peak Forward Surge Current	I_{FSM}	135A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	I_{FM} = 3A T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 µA	T_a = 25°C
I^2t Rating for fusing	I^2t	$75A^2S$	(1ms< t<8.3ms)
Thermal Resistance	R_{thJA} R_{thJC}	22°C/W 1.5°C/W	

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

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DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.13	1.154	28.70	29.30	
B	.559	.583	14.20	14.80	
C	.575	.598	14.60	15.20	
D	.614	.638	15.60	16.20	
E	.343	.366	8.70	9.30	
F	.169	.193	4.30	4.90	
G	.122	.134	3.10	3.40	
H	.130	.154	3.30	3.90	
J	.098	.114	2.50	2.90	
K	.012	.024	0.40	0.60	
L	.059	.067	1.50	1.70	
M	.035	.043	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	

RATING AND CHARACTERISTIC CURVES

FIG1:Io-Tc Curve

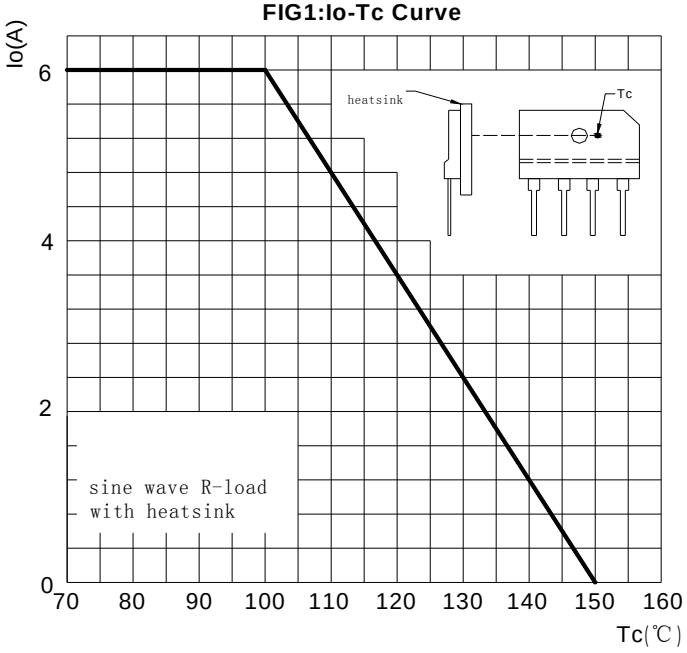


FIG2:Surge Forward Current Capadility

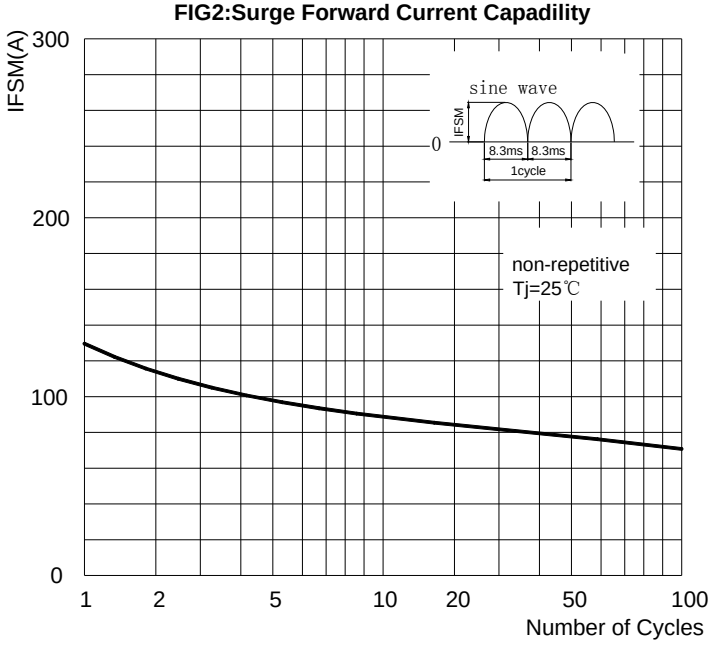


FIG3: Forward Voltage

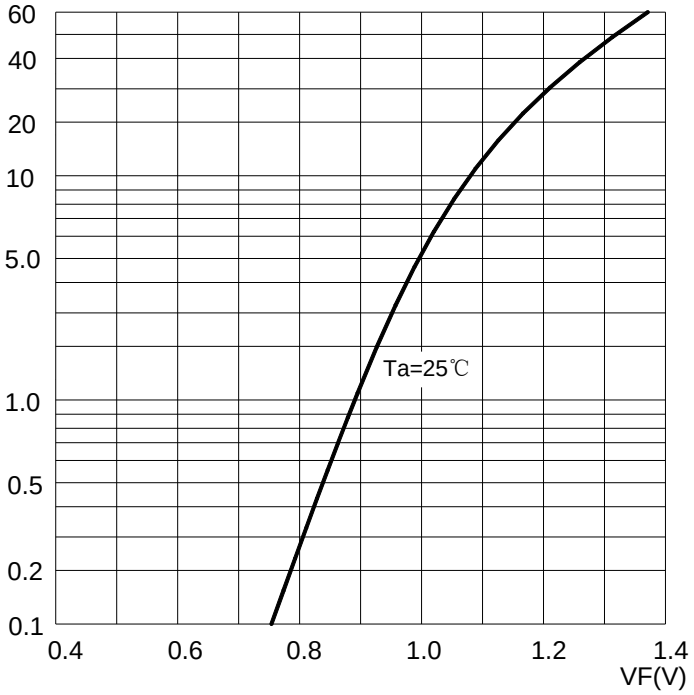
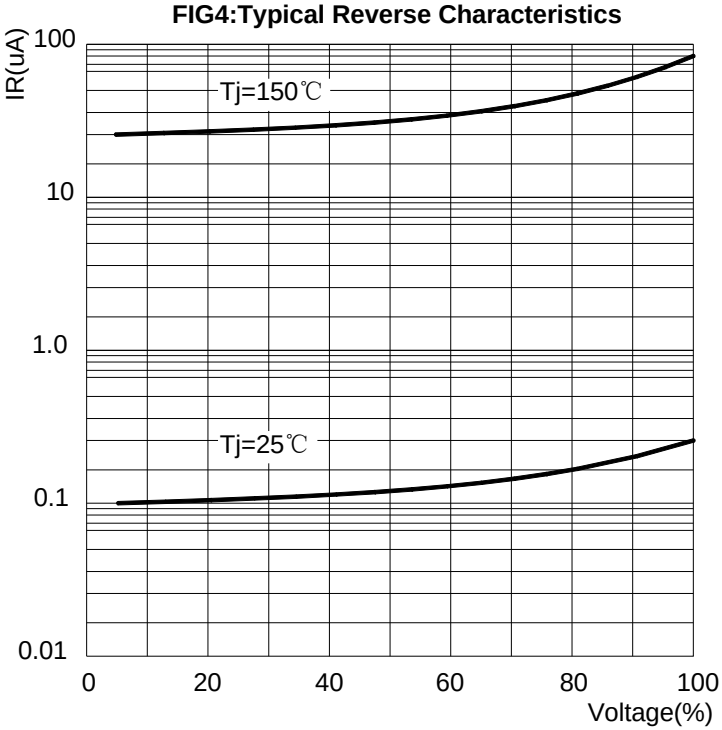


FIG4:Typical Reverse Characteristics



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Ordering Information :

Device	Packing
Part Number-BP	Bulk: 1.5K/Ctn

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

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