



Micro Commercial Components



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GBJA10005 THRU GBJA1010

10 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

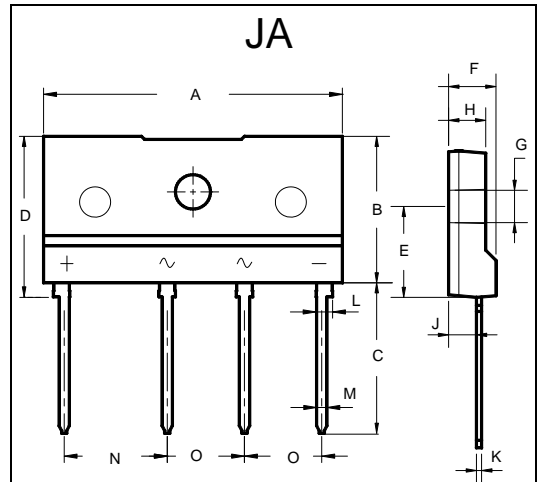
Features

- 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 Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJA10005	GBJA10005	50V	35V	50V
GBJA1001	GBJA1001	100V	70V	100V
GBJA1002	GBJA1002	200V	140V	200V
GBJA1004	GBJA1004	400V	280V	400V
GBJA1006	GBJA1006	600V	420V	600V
GBJA1008	GBJA1008	800V	560V	800V
GBJA1010	GBJA1010	1000V	700V	1000V



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	$T_c = 95^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_{FM} = 5A$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA	$T_a = 25^\circ\text{C}$
I^2t Rating for fusing	I^2t	93A ² S	(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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RATING AND CHARACTERISTIC CURVES

FIG1:Io-Tc Curve

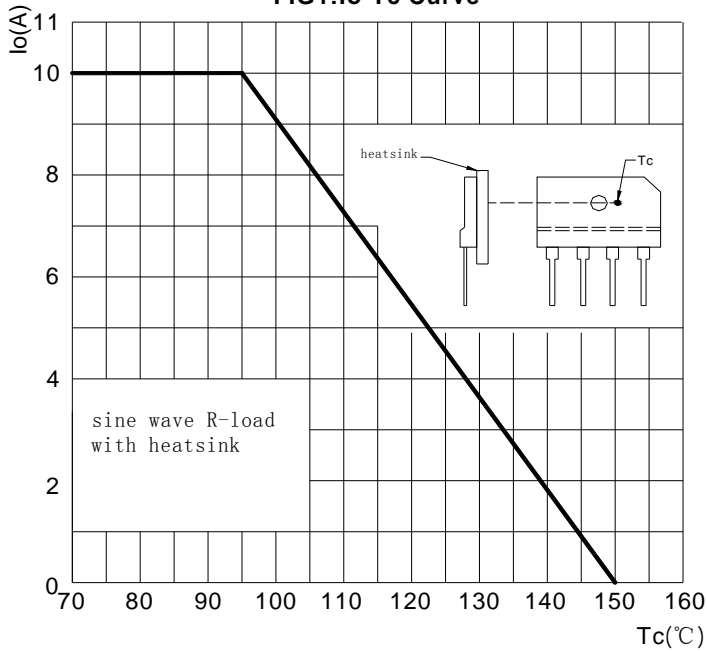


FIG2:Surge Forward Current Capadility

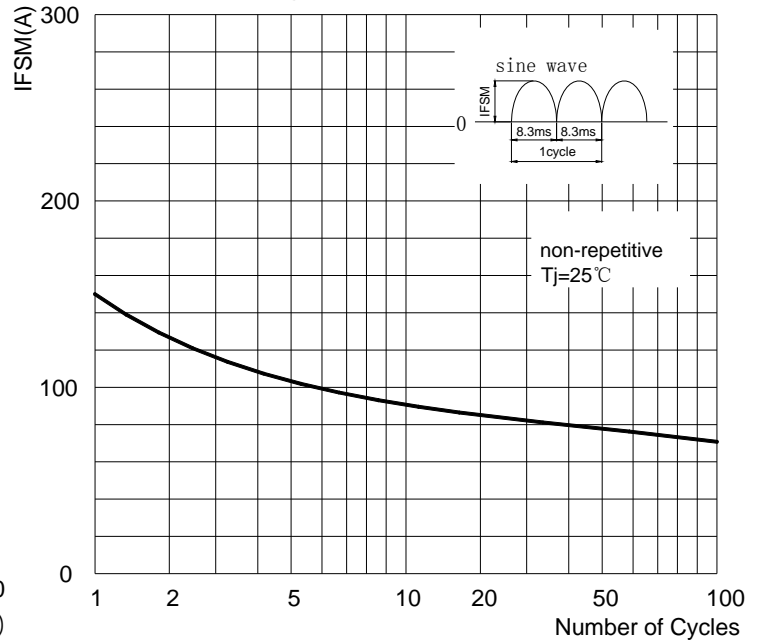


FIG3: Forward Voltage

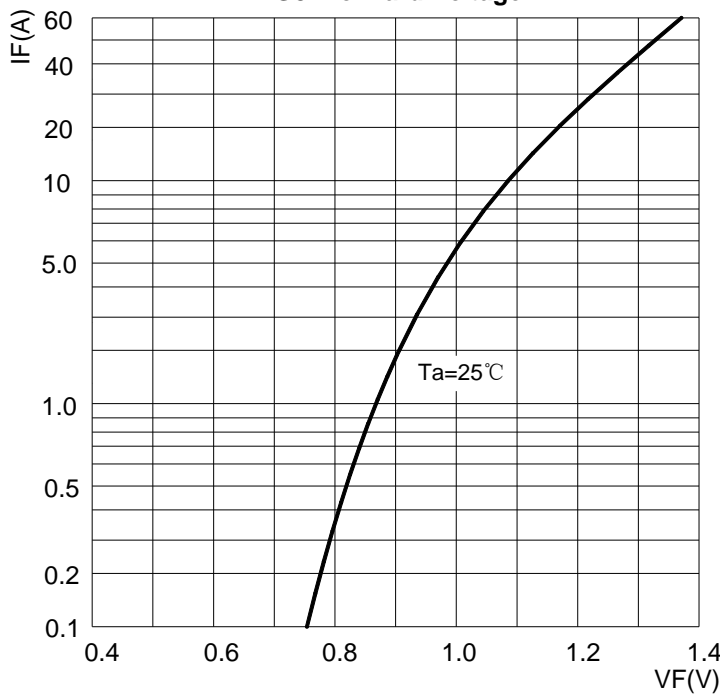
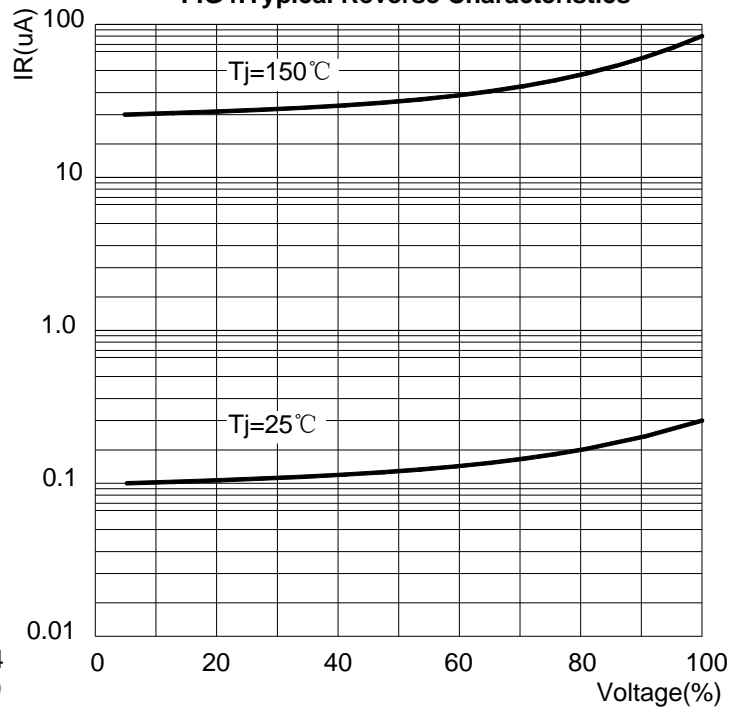


FIG4:Typical Reverse Characteristics





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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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