

F1 E502650

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Low Forward Voltage Drop, High Current Capability
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

50 Amp Glass
Passivated Bridge
Rectifier
50 - 1000 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 0.8°C/W Junction to Case
- Typical Thermal Resistance: 22°C/W Junction to Ambient

Mechanical Data

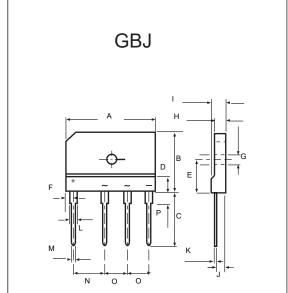
• Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ50005	GBJ50005	50V	35V	50V
GBJ5001	GBJ5001	100V	70V	100V
GBJ5002	GBJ5002	200V	140V	200V
GBJ5004	GBJ5004	400V	280V	400V
GBJ5006	GBJ5006	600V	420V	600V
GBJ5008	GBJ5008	800V	560V	800V
GBJ5010	GBJ5010	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	50A	T _C = 100°C
Peak Forward Surge Current	I _{FSM}	400A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 25A;T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ	T _J = 25°C
Dielectric Strength@ Terminals to Case,AC 1 Minute	Vdis	2.5KV	
Rating for Fusing	l²t	664 A ² s	t<8.3ms

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	1.170	1.190	29.70	30.30	
В	0.780	0.800	19.70	20.30	
С	0.670	0.710	17.00	18.00	
D	0.190	0.190	4.70	4.90	
Е	0.430	0.440	10.80	11.20	
F	0.090	0.110	2.30	2.70	
G	0.120	0.130	3.10	3.40	
Н	0.130	0.150	3.40	3.80	
I	0.170	0.190	4.40	4.80	
J	0.100	0.110	2.50	2.90	
K	0.020	0.030	0.60	0.80	
L	0.080	0.090	2.00	2.40	
М	0.040	0.040	0.90	1.10	
N	0.390	0.400	9.80	10.20	
0	0.290	0.300	7.30	7.70	
Р	0.150	0.170	3.80	4.20	



Curve Characteristics

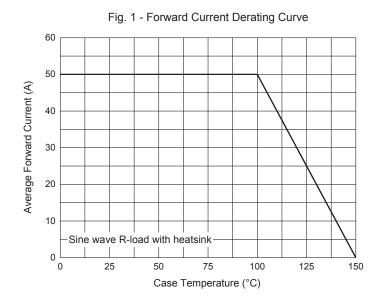


Fig. 3 - Typical Instantaneous Forward Characteristics

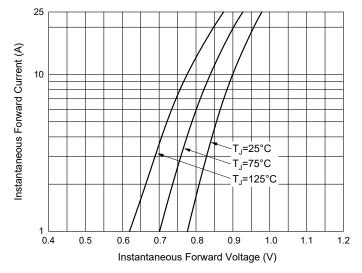


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

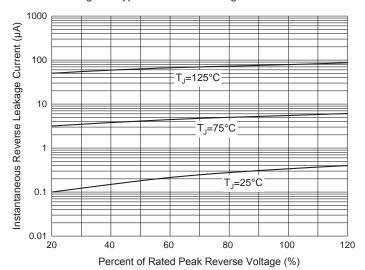
300

300

8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-BP	Bulk:15pcs/Tube,750pcs/Box,1500pcs/Carton	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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