

Al

E502650

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 1.4°C/W Junction to Case(Note2)

Mechanical Data

• Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ10005	GBJ10005	50V	35V	50V
GBJ1001	GBJ1001	100V	70V	100V
GBJ1002	GBJ1002	200V	140V	200V
GBJ1004	GBJ1004	400V	280V	400V
GBJ1006	GBJ1006	600V	420V	600V
GBJ1008	GBJ1008	800V	560V	800V
GBJ1010	GBJ1010	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

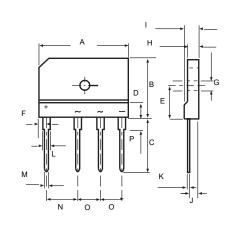
Average Forward Current	I _{F(AV)}	10A	T _C = 110°C	
Peak Forward Surge Current	I _{FSM}	170A	8.3ms, Half Sine	
Maximum Instantaneous Forward Voltage	V _F	1.05V	I _{FM} = 5.0A;T _J = 25°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 500μA	$T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$	
Typical Junction Capacitance	C _J	55pF	Measured at 1.0MHz, V _R =4.0V	
Rating for Fusing	l ² t	120 A ² s	t<8.3ms	

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

2. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

10 Amp Glass Passivated Bridge Rectifier 50 - 1000 Volts





	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

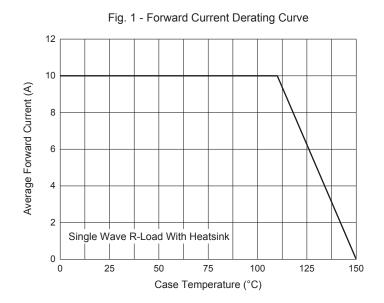


Fig. 3 - Typical Instantaneous Forward Characteristics

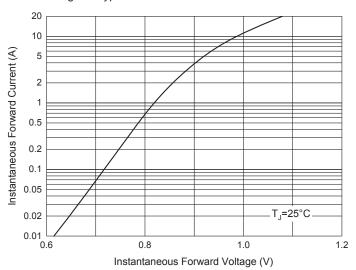


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

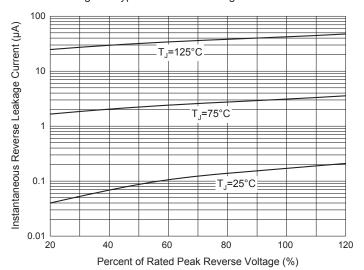
Current

150

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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