

FL 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
- · Glass Passivated Chip Junction

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(Note2)

Mechanical Data

• Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ5010S	GBJ5010S	1000V	700V	1000V

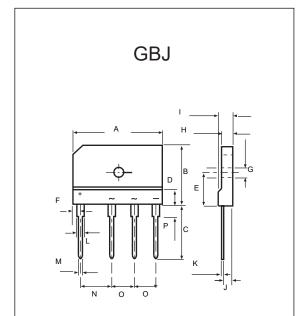
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	50A 5.2A	T _C = 100°C,With Heatsink T _A = 25°C,Without Heatsink
Peak Forward Surge Current	I _{FSM}	500A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V _F	1.0V	I _{FM} = 25A Per Diode; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 200uA	T _J = 25°C T _J = 125°C
Dielecric Strength	V _{ISO}	2.5KV	Terminals to Case, AC 1 Minute
Rating for Fusing	I ² t	1037 A ² s	t<8.3ms
Typical Junction Capacitance	CJ	190 pF	Measured at 1.0MHz, V _R =4.0V

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.

50 Amp Glass Passivated Bridge Rectifier 1000 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	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		
E	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		
M	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

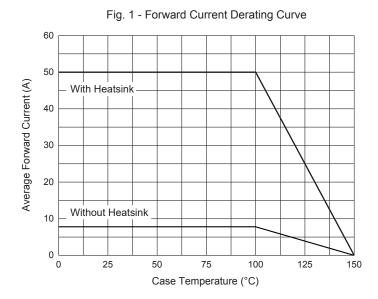


Fig. 3 - Typical Instantaneous Forward Characteristics

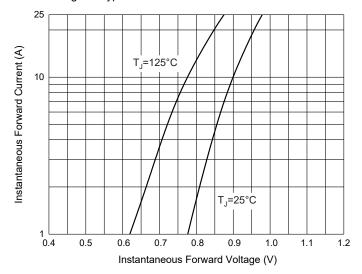


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

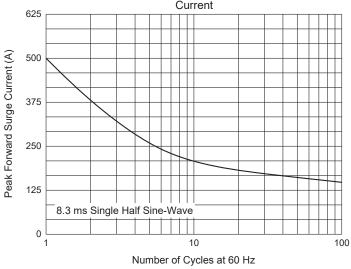
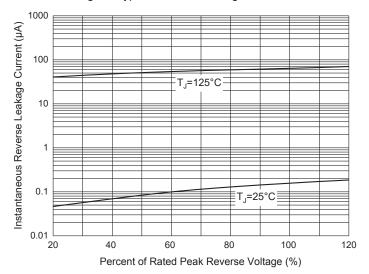


Fig. 4 - Typical Reverse Leakage Characteristics





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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