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E502650

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 1.8°C/W Junction to case(Note2)

Mechanical Data

• Mounting Torque: 5in-lbs Maximum

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ6005	GBJ6005	50V	35V	50V
GBJ601	GBJ601	100V	70V	100V
GBJ602	GBJ602	200V	140V	200V
GBJ604	GBJ604	400V	280V	400V
GBJ606	GBJ606	600V	420V	600V
GBJ608	GBJ608	800V	560V	800V
GBJ610	GBJ610	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

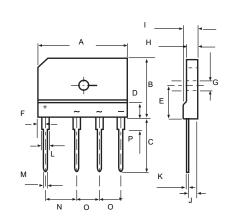
Average Forward Current	I _{F(AV)}	6A 2.8A	T _C = 110°C;With Heatsink T _A = 25°C;Without Heatsink	
Peak Forward Surge Current	I _{FSM}	170A	8.3ms, Half Sine	
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 3.0A;T _J = 25°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 500μΑ	$T_J = 25$ °C $T_J = 125$ °C	
Typical Junction Capacitance	C _J	55pF	Measured at 1.0MHz, V _R =4.0V	
Rating for Fusing	l²t	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.

6 Amp Glass Passivated Bridge Rectifier 50 - 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	
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

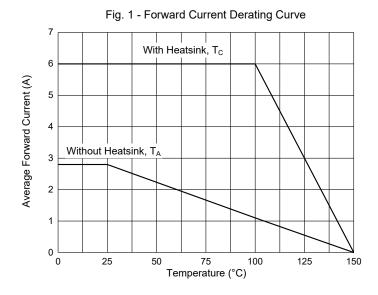


Fig. 3 - Typical Instantaneous Forward Characteristics

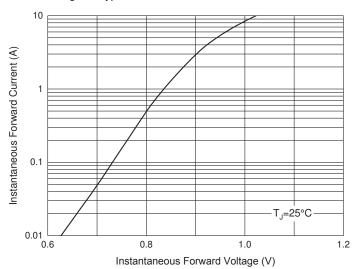


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

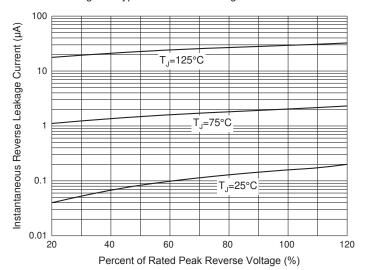
150

8.3 ms Single Half Sine-Wave

100

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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