

51 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 Surge Overload Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2.2°C/W Junction To Case (Note 2)
- Typical Thermal Resistance: 20°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
GBU8A	GBU8A	50V	35V	50V
GBU8B	GBU8B	100V	70V	100V
GBU8D	GBU8D	200V	140V	200V
GBU8G	GBU8G	400V	280V	400V
GBU8J	GBU8J	600V	420V	600V
GBU8K	GBU8K	800V	560V	800V
GBU8M	GBU8M	1000V	700V	1000V

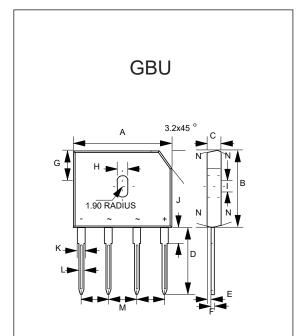
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	8.0A	T _C = 100°C	
Peak Forward Surge Current	I _{FSM}	220A 200A 440A 400A	T_J = 25°C 8.3ms, T_J = 125°C Half Sine T_J = 25°C 1.0ms, T_J = 125°C Half Sine	
Maximum Instantaneous Forward Voltage	V _F	1.0V 1.2V	I _{FM} = 4.0A; T _J = 25°C I _{FM} = 8.0A; T _J = 25°C	
Rating for fusing	l ² t	200A ² s 96.8A ² s	t<8.3ms t<1.0ms	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 500μΑ	$T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$	
Typical Junction Capacitance	CJ	60pF	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.

8 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.860	0.880	21.80	22.30		
В	0.720	0.740	18.30	18.80		
С	0.130	0.142	3.30	3.60		
D	0.690	0.717	17.50	18.20		
E	0.030	0.039	0.76	1.00		
F	0.018	0.024	0.46	0.60		
G	0.290	0.310	7.40	7.90		
Н	0.140	0.160	3.50	4.10		
I	0.065	0.085	1.65	2.16		
J	0.060	0.096	1.52	2.45		
K	0.077	0.098	1.95	2.50		
L	0.040	0.050	1.02	1.27		
M	0.190	0.210	4.83	5.33		
N	7.0° TYPICAL					



Curve Characteristics

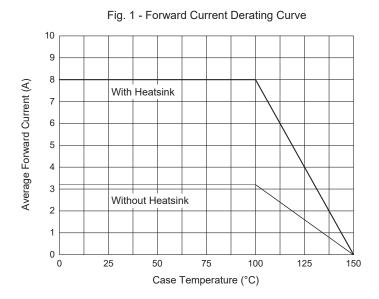
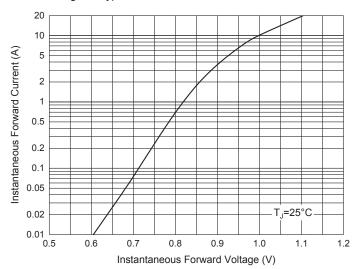


Fig. 3 - Typical Instantaneous Forward Characteristics



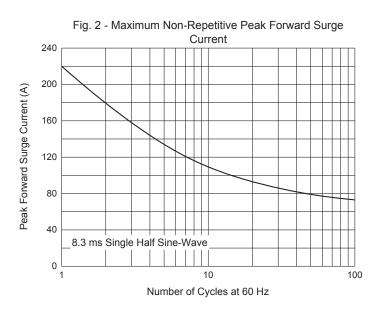
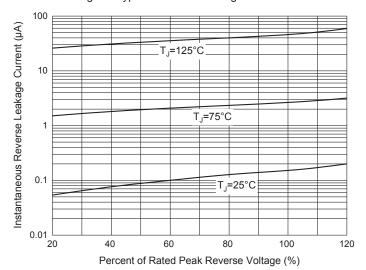


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton	

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

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