

	E502650
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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
- Thermal Resistance 2.2°C/W Junction To Case (Note 2)

Mechanical Data

- Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU6A	GBU6A	50V	35V	50V
GBU6B	GBU6B	100V	70V	100V
GBU6D	GBU6D	200V	140V	200V
GBU6G	GBU6G	400V	280V	400V
GBU6J	GBU6J	600V	420V	600V
GBU6K	GBU6K	800V	560V	800V
GBU6M	GBU6M	1000V	700V	1000V

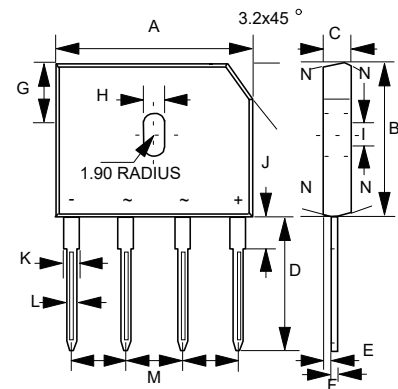
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current ^(NOTE 2)	$I_{F(AV)}$	6.0A	$T_C = 100^\circ C$
Peak Forward Surge Current	I_{FSM}	175A 160A 350A 320A	$T_J = 25^\circ C$ 8.3ms, Half Sine $T_J = 125^\circ C$ 1.0ms, Half Sine $T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 3.0A$; $T_J = 25^\circ C$
Rating for Fusing	I^2t	127A ² s 61.3A ² s	$t < 8.3ms$ $t < 1.0ms$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5µA 500µA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Typical Junction Capacitance	C_J	50pF	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.

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

GBU



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.860	0.880	21.80	22.30	
B	0.720	0.740	18.30	18.80	
C	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	
H	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. 1 - Forward Current Derating Curve

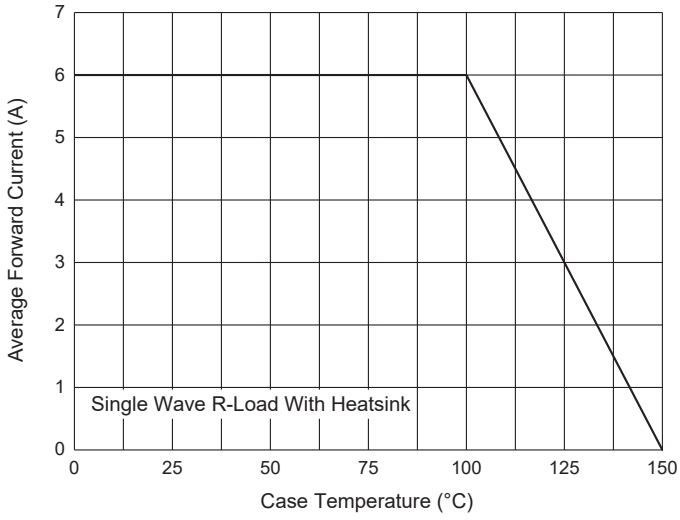


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

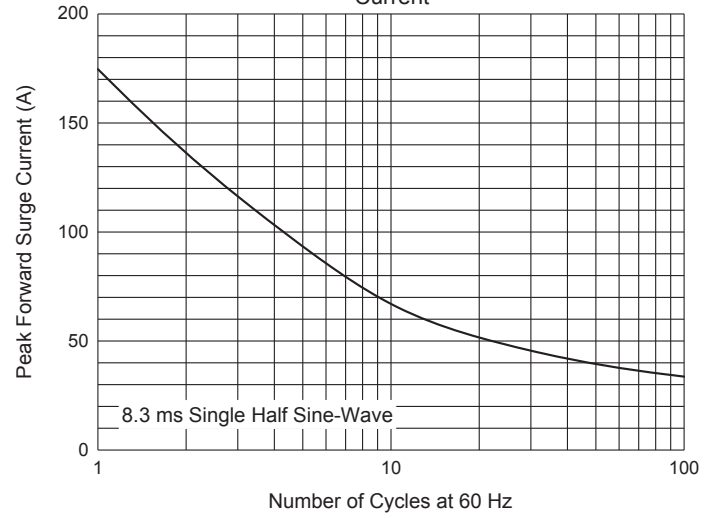


Fig. 3 - Typical Instantaneous Forward Characteristics

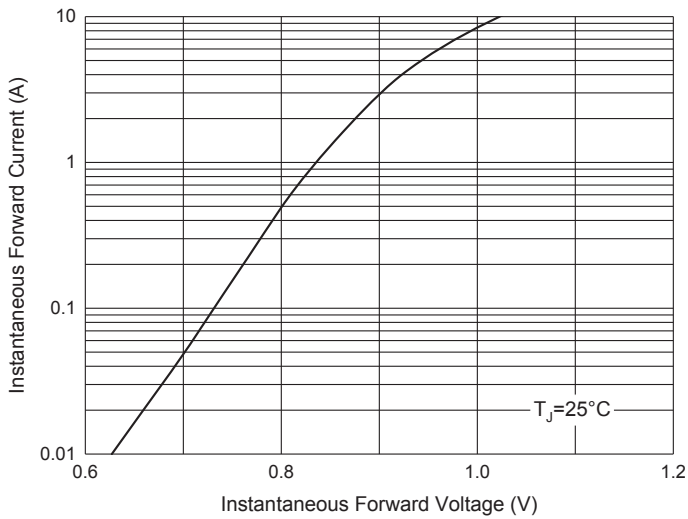
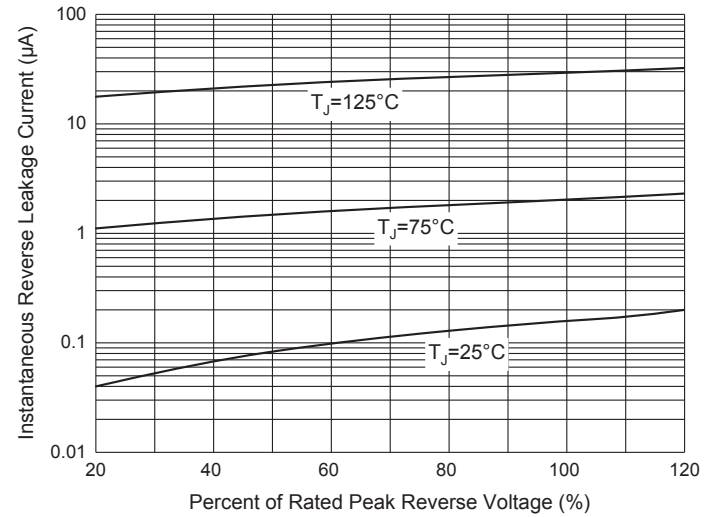


Fig. 4 - Typical Reverse Leakage Characteristics



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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