



**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
- Moisture Sensitivity Level 1
- 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: 1.8°C/W Junction to Case (Note 2)
- Thermal Resistance: 23°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
GBU15KL	GBU15KL	800V	560V	800V

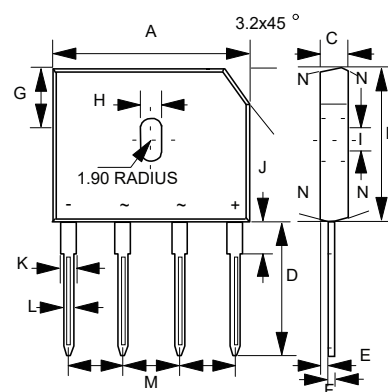
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	15A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	240A	8.3ms, Half Sine
Instantaneous Forward Voltage	$V_F$	0.91V(Typ) 0.93V(Max)  0.78V(Typ) 0.8V(Max)	$I_{FM}=7.5A; T_J = 25^\circ\text{C}$  $I_{FM}=7.5A; T_J = 125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5μA 120μA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Rating for Fusing	$I^2t$	240A <sup>2</sup> s	$t < 8.3\text{ms}$

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.

# 15 Amp Single Phase Glass Passivated Bridge Rectifiers 800 Volts

GBU



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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

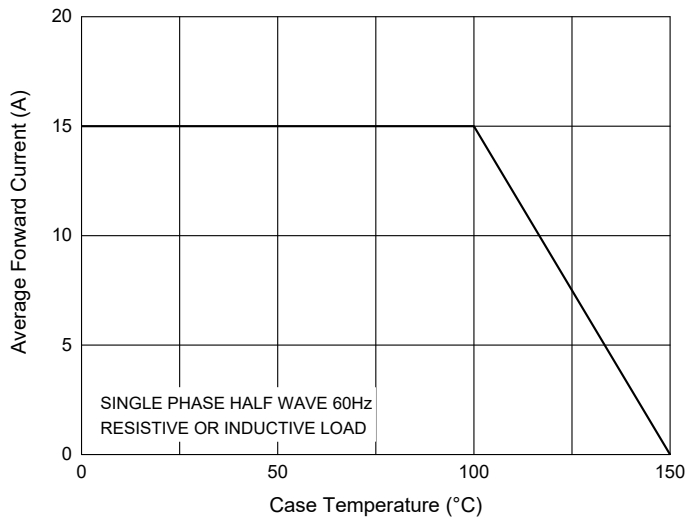


Fig. 4 - Peak Forward Surge Current

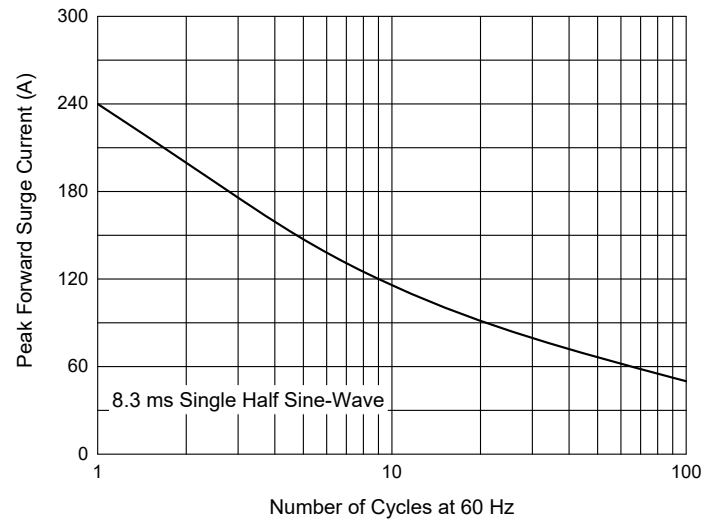


Fig. 3 - Typical Instantaneous Forward Characteristics

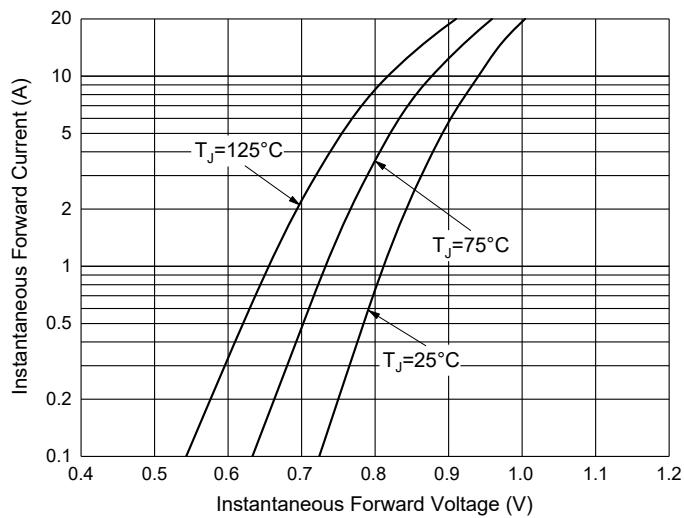
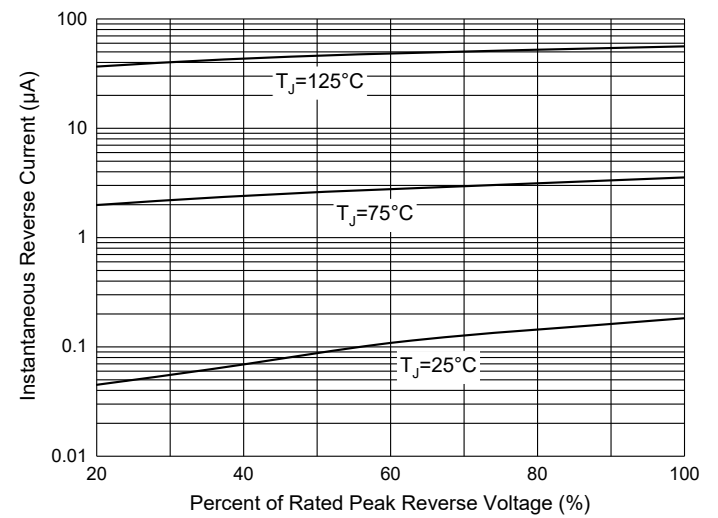


Fig. 4 - Typical Reverse Leakage Characteristics



## 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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