



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 Current Capability

# 20 Amp Glass Passivated Bridge Rectifier 50 - 1000 Volts

## 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

## Mechanical Data

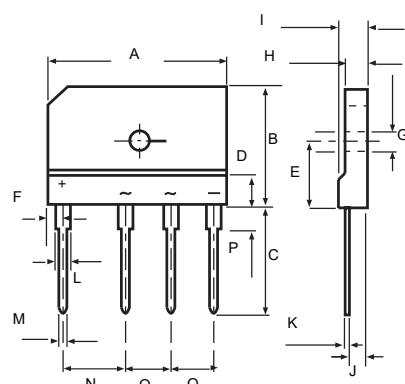
- Mounting Torque: 5in-lbs

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ20005	GBJ20005	50V	35V	50V
GBJ2001	GBJ2001	100V	70V	100V
GBJ2002	GBJ2002	200V	140V	200V
GBJ2004	GBJ2004	400V	280V	400V
GBJ2006	GBJ2006	600V	420V	600V
GBJ2008	GBJ2008	800V	560V	800V
GBJ2010	GBJ2010	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20A	$T_C = 100^\circ C$
Peak Forward Surge Current	$I_{FSM}$	240A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	1.05V	$I_{FM} = 10A; T_J = 25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10µA 500µA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Typical Junction Capacitance	$C_J$	60pF	Measured at 1.0MHz, $V_R = 4.0V$
Rating for Fusing	$I^2t$	240 A <sup>2</sup> s	$t < 8.3ms$

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.170	1.190	29.70	30.30	
B	0.780	0.800	19.70	20.30	
C	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	
H	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	
O	0.290	0.300	7.30	7.70	
P	0.150	0.170	3.80	4.20	

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

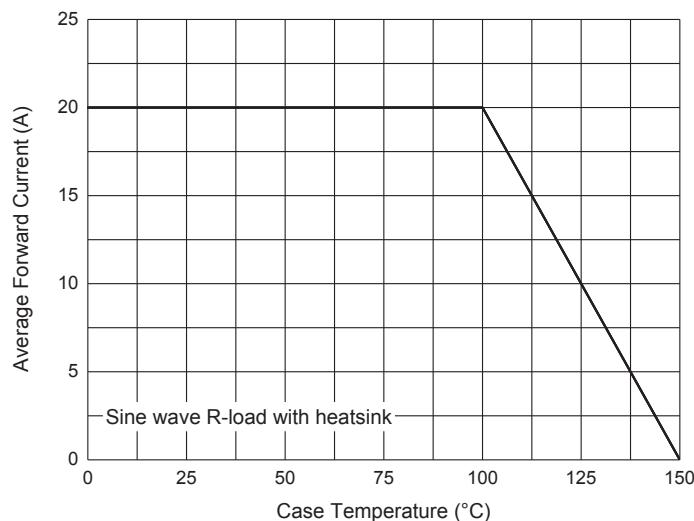


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

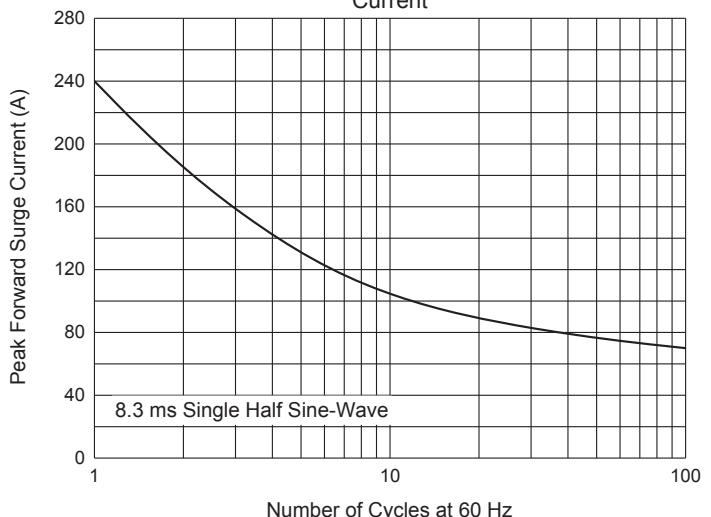


Fig. 3 - Typical Instantaneous Forward Characteristics

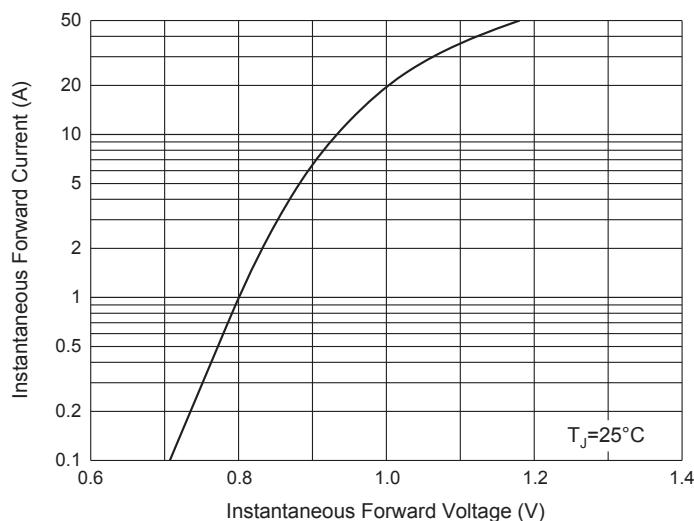
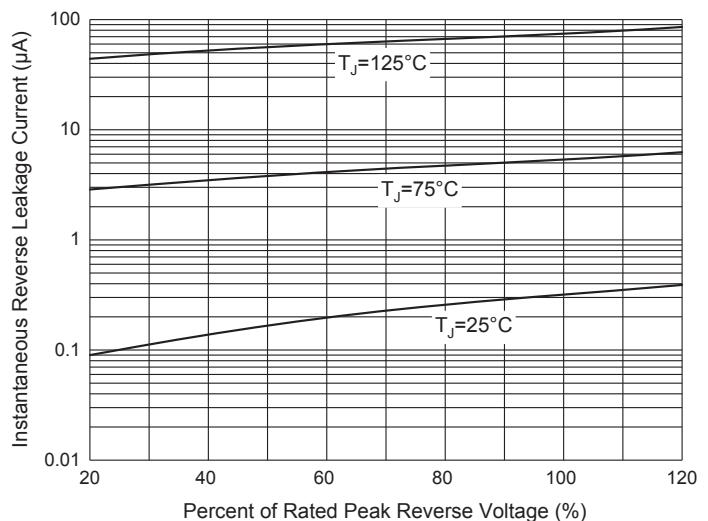


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-BP	Bulk:15pcs/Tube,750pcs/Box,1500pcs/Carton

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

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