

**FL** E502650

#### **Features**

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note 2) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- · High Surge Forward Current Capability

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1.5°C/W Junction to Case(Note 3)
- Thermal Resistance: 22°C/W Junction to Ambient

## **Mechanical Data**

• Mounting Torque: 0.5 N•m

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJA20005	GBJA20005	50V	35V	50V
GBJA2001	GBJA2001	100V	70V	100V
GBJA2002	GBJA2002	200V	140V	200V
GBJA2004	GBJA2004	400V	280V	400V
GBJA2006	GBJA2006	600V	420V	600V
GBJA2008	GBJA2008	800V	560V	800V
GBJA2010	GBJA2010	1000V	700V	1000V

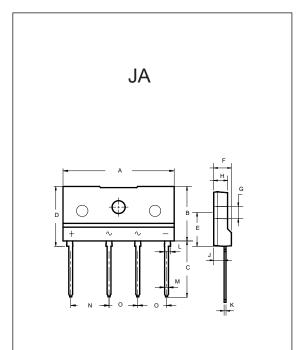
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	20A	T <sub>C</sub> = 90°C	
Peak Forward Surge Current	I <sub>FSM</sub>	240A	8.3ms, Half Sine	
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.1V	I <sub>FM</sub> =10A;T <sub>J</sub> = 25°C	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5µA	T <sub>J</sub> = 25°C	
I²t Rating forFusing	l²t	240A <sup>2</sup> S	(1ms< t<8.3ms)	

#### Note:

- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.
- 3. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

# 20 Amp Glass Passivated Bridge Rectifier 50 - 1000 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	1.130	1.154	28.70	29.30	
В	0.559	0.583	14.20	14.80	
С	0.575	0.598	14.60	15.20	
D	0.614	0.638	15.60	16.20	
E	0.343	0.366	8.70	9.30	
F	0.169	0.193	4.30	4.90	
G	0.122	0.134	3.10	3.40	
Н	0.130	0.154	3.30	3.90	
J	0.098	0.114	2.50	2.90	
K	0.012	0.024	0.40	0.60	
L	0.059	0.067	1.50	1.70	
М	0.035	0.043	0.90	1.10	
N	0.390	0.400	9.80	10.20	
0	0.290	0.300	7.30	7.70	



## **Curve Characteristics**

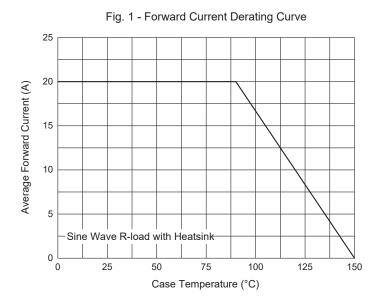


Fig. 3 - Typical Instantaneous Forward Characteristics

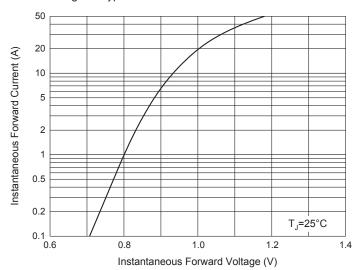


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

280

240

240

240

200

160

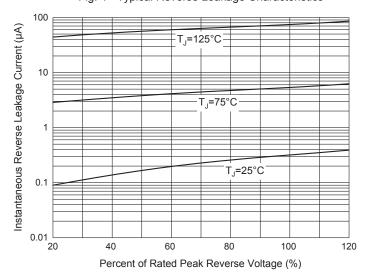
80

80

8.3 ms Single Half Sine-Wave

1 10 100

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	

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