



Features

Glass Passivated Chip Junction

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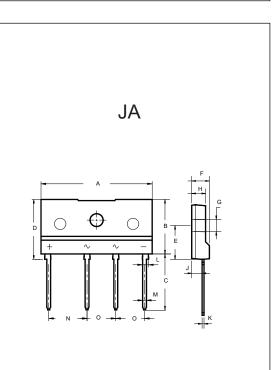
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

E502650

					Value							
Parameter	Symbol	GBJA 20005		GBJA 2002	GBJA 2004	GBJA 2006	GBJA 2008	GBJA 2010	Unit			
Peak Repetitive Reverse Voltage	V _{RRM}											
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V			
DC Blocking Voltage	V_{R}											
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V			
Average Rectified Forward Current @ $T_c=90^{\circ}C$	I _{F(AV)}	20				A						
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1				240				А			
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	480										
l²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	240			A²s							
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.0					KV					

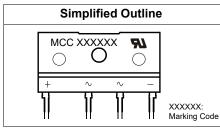
20 Amp Bridge Rectifier 50 to 1000 Volts

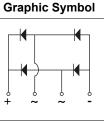


Marking Code

Part Number	Marking Code
GBJA20005	GBJA20005
GBJA2001	GBJA2001
GBJA2002	GBJA2002
GBJA2004	GBJA2004
GBJA2006	GBJA2006
GBJA2008	GBJA2008
GBJA2010	GBJA2010

Internal Structure





DIM	INCHES		M	IM	NOTE
DIIVI	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	
Е	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	
Κ	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	
Ν	0.390	0.400	9.80	10.20	
0	0.290	0.300	7.30	7.70	

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

2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		1.5		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		22		°C/W

Note:

1.Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

Mechanical Data

Recommended Mounting Torque: 0.5 N·m

Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =10A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 500	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		80		pF



Curve Characteristics

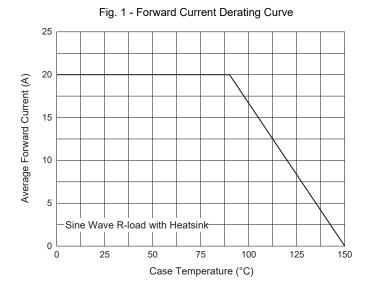


Fig. 3 - Typical Forward Characteristics

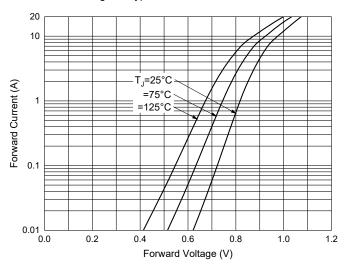
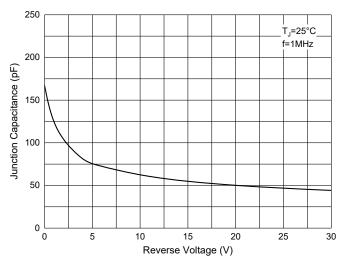


Fig. 5 - Typical Capacitance Characteristics



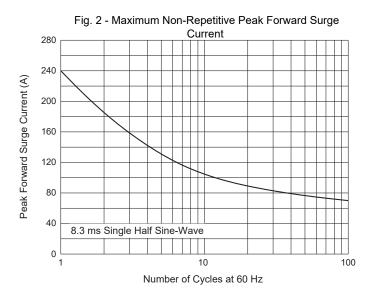
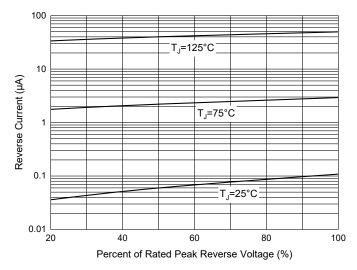


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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