



E502650

Features

- Glass Passivated Chip Junction
- 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)

		Value							
Parameter	Symbol								Unit
Darle Danieliki		10005	1001	1002	1004	1006	1008	1010	
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	٧
Average Rectified Forward Current @ T _C =110°C	I _{F(AV)}	10				Α			
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	ı				150				Α
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	300						A	
I²t Rating for Fusing @1ms≤t≤8.3ms	I ² t	93			A ² s				
Dielectric strength @Terminals to Case, AC 1 Minute	V_{dis}	2.0				KV			

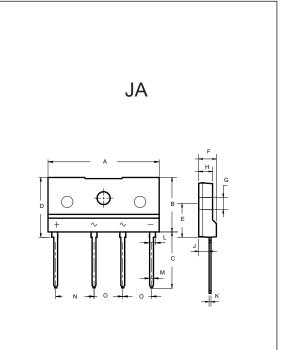
Marking Code

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Part Number	Marking Code
GBJA10005	GBJA10005
GBJA1001	GBJA1001
GBJA1002	GBJA1002
GBJA1004	GBJA1004
GBJA1006	GBJA1006
GBJA1008	GBJA1008
GBJA1010	GBJA1010

Internal Structure

Simplified Outline)	Graphic Symbol		
MCC XXXXXX 71	XXXXXX: Marking Code	+ ~ ~ -		

10 Amp Bridge Rectifier 50 to 1000 Volts



	DIMENSIONS						
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			
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			
M	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			

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		32		°C/W

Note:

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 =5A;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			5 200	uA
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		52		pF

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



Curve Characteristics

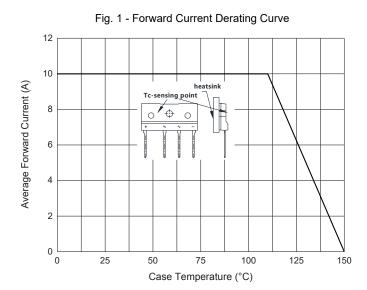


Fig. 3 - Typical Forward Characteristics

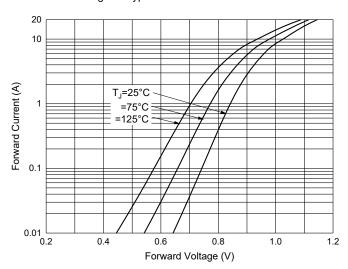


Fig. 5 - Typical Capacitance Characteristics

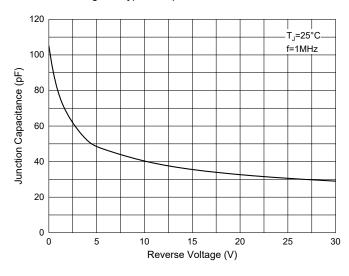


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

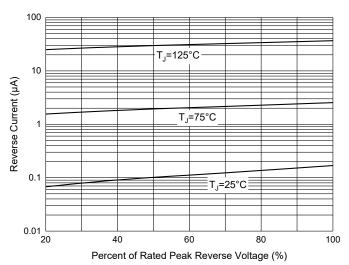
Current

150

8.3 ms Single Half Sine-Wave

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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