

# BGO6000A03-LB2

Version: A2 2018-11-8

Order Code: BGO6000A03-LB2

Bencent Composite Product

Features Exterior

- Size DesignΦ5.5×6mm
- High Current Handling Capability 3000A @ 8/20µ s
- Low Capacitance and Insertion Loss
- Fast Response and Long Service Life
- Moisture sensitivity level: Level 1
- Current Limiting, available 1-30A @600VAC

Application Information

AC Power

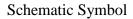


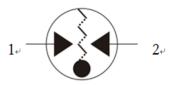
Package (Top View)



#### Agency Approvals

Icon	Description		
RoHS	Compliance with 2011/65/EU		
HF	Compliance with IEC61249-2-21:2003		
<b>⊗</b>	Mean lead free		
. <b>R</b> l.	Compliance with UL1449, Certificated E337906		





#### **Electrical Parameter**

DC Breakdown Voltage <sup>1) 2)</sup>	100V/s	>480	V
Impulse Charle over Welters	1000V/μs	for 99 % of measured values ≤1300	V
Impulse Spark-over Voltage		Typical values of distribution ≤1200	V
Impulse Discharge Current <sup>3)</sup>	8/20μs ±5times	3	KA
Arc Voltage	at 1A	~15	V
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1 MHz	$V_{DC}=0.5V$	≤1.5	pF
Weight		~0.8	g
Operating and storage Temperature		-40-125	${\mathbb C}$
Marking		Bencent Logo 600	

- 1) At delivery AQL 0.65 level II ISO 2859
- 2) In ionized mode
- 3) Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21

#### Open Characteristic

Voltage Rating(V)	600	600	600	600
Ampera Rating(A)	1	10	20	30
Open Time(S) Max.	10	3	1	0.8

Note: Heat shrinkable tube and encapsulating are not recommended to use on the surface of BGO product.



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### Part Numbering System

BGO 6000 A03 -L B 2 (1) (2) (3) (4) (5) (6)

(1)Bencent Open GDT

(2)Rated DC Breakdown Voltage,6000:600\*10^0=600V

(3)Surge Rating, A03: 8/20 µ s 3000A

(4)Structure, L: Axial Lead (5)Dimension, B: Φ5.5×6mm

(6)Pin Number, 2pin

#### **Product Characteristics**

Lead Material	Copper
Body Material	Ceramics
Terminal Finish	100% Matte-Tin Plated

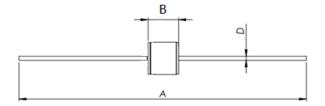
#### Environmental ReliabilityCharacteristics

Testing items	Technical standards
High Temperature Storage Test	Temperature:125°C Time:2H
Low Temperature Storage Test	Temperature: -40°C Time:2H
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time: 45mins
Resistance of soldering heat	Temperature: $260\pm5^{\circ}$ C Time of dip soldering: 10s, 1time

Note: Up-screen program can be specified by customer's request via contacting Bencent service SolderabilityTest

Soldorobility	Solder Pot Temperature:	245°C ±5°C	
Solderability	Solder Dwell Time:	4-6 seconds	

#### **Product Dimensions**





REF	Mm	inch
A	62±2	$2.441 \pm 0.079$
В	6.0±0.5	$0.236 \pm 0.02$
С	$\Phi 5.5 \pm 0.2$	$\Phi 0.217 \pm 0.01$
D	Ф0.8±0.1	$\Phi 0.0315 \pm 0.004$



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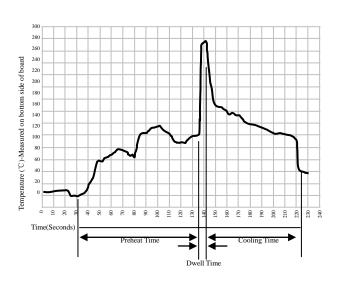


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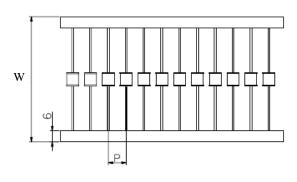
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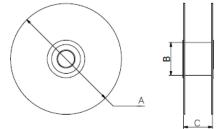
### Wave Soldering Profile

Wave Soldering Condition		Pb-Free assembly	
Duo	Temperature Min	100°C	
Pre	Temperature Max	150°C	
Heat	Time (min to max)	60 – 180 secs	
Solder Pot Temperature		270°C Max	
Solder Dwell Time		2-5 seconds	



#### Package Reel Information





REF	mm	inch	
W	65±3	$2.559 \pm 0.118$	
P	10±1	$0.394 \pm 0.039$	
A	Φ340±2	$\Phi$ 13.386 $\pm$ 0.079	
В	Φ83±2	$\Phi$ 3.268 $\pm$ 0.079	
С	73±3	$2.874 \pm 0.118$	

OUTLINE	REEL (PCS)	PER CARTON (PCS)	CARTON SIZE(mm)		
			L	W	Н
TAPING	1000	6000	480	350	360