B5G3600

Order Code: B5G3600-01

Gas Discharge Tube

Version: A1 2016-01-26

Features

- Size Design Φ5.5×6mm
- High Current Handling Capability 3,000A @ 8/20 μ s
- Low Capacitance and Insertion Loss
- Fast Response and Long Service Life
- Reliable to Protect Electrostatic Surge
- Moisture sensitivity level：Level 1

Exterior



Application Information

- AC Power

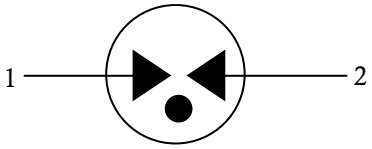
Package (Top View)



Agency Approvals

Icon	Description
RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003
Pb	Mean lead free
.RU	Compliance with UL1449, Certificated E337906

Schematic Symbol



Electrical Parameter

DC Breakdown Voltage[1) 2)]	100V/s	3600(-20%~+30%)	V
Impulse Spark-over Voltage	1.2/50us-8/20us 6KV-3KA	≤ 5500	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 4700	V
	At 1kV/μs	Typical values of distribution ≤ 4600	V
Impulse Discharge Current[3)]	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	pF
Hi-pot Test	I_D=10mA	≥1875	V
Weight		~0.75	g
Operating and storage Temperature		-40-90	℃
Marking		Bencent Logo, Voltage and date code	

1) At delivery AQL 0.65 level II GB/T 2828.1-2003
2) In ionized mode
3) Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications

Part Numbering System

B5G XXXX

(1) (2)

(1)Bencent 2-Electrode DIP Gas Discharge Tube with dimension: Φ5.5×6 (D×L) (mm)

(2) DC Breakdown Voltage, e.g., 3600=3600V

Product Characteristics

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

Environmental Reliability Characteristics

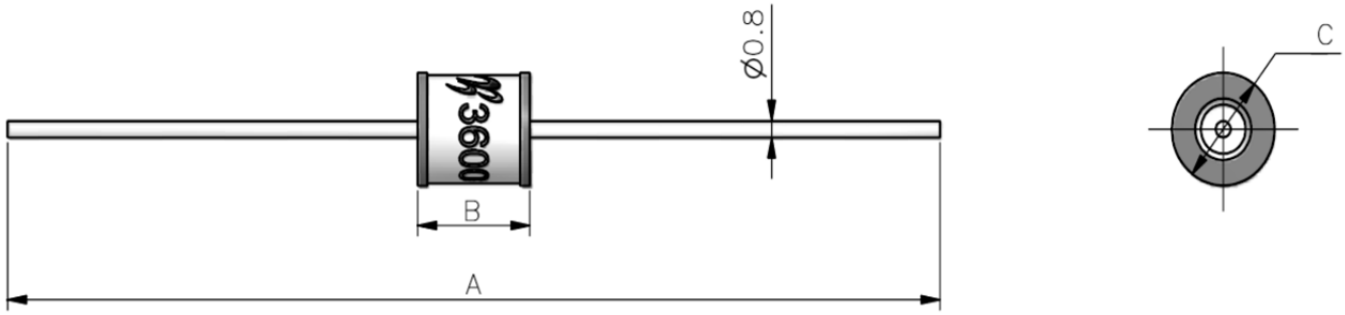
Testing items	Technical standards
High Temperature Storage Test	Temperature: 90℃ Time:2H
Low Temperature Storage Test	Temperature: -40℃ Time:2H
Vibration	Frequency：10-500Hz Amplitude：0.15mm Time：45mins
Resistance of soldering heat	Temperature: 260±5℃ Time of dip soldering：10s，1time

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

Solderability Test

Solderability	Solder Pot Temperature:	245℃±5℃
	Solder Dwell Time:	4-6 seconds

Product Dimensions

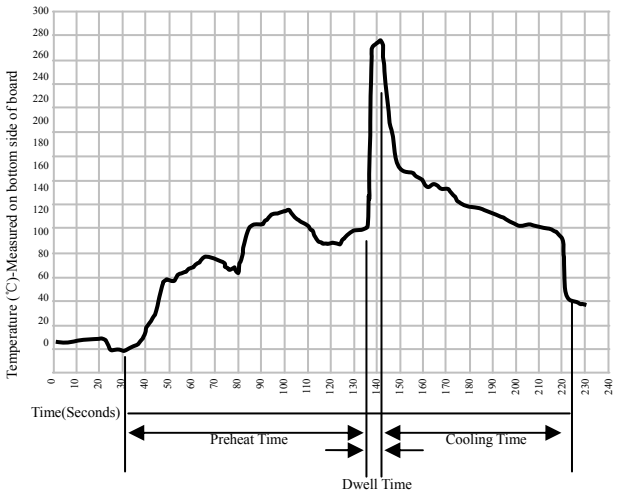


REF	mm	inch
A	62±2	2.441±0.079
B	6±0.2	0.236±0.008
C	Φ5.5±0.2	Φ5.5±0.008

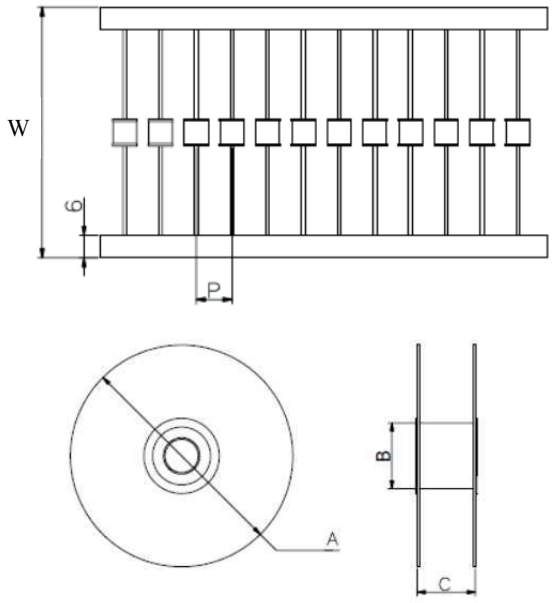
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Wave Soldering Profile

Wave Soldering Condition		Pb-Free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time （min to max）	60 – 180 secs
Solder Pot Temperature		280℃ Max
Solder Dwell Time		2-5 seconds



Package Reel Information



REF	mm	inch
W	65±3	2.559±0.118
P	10±1	0.394±0.039
A	Φ340±2	Φ13.386±0.079
B	Φ83±2	Φ3.268±0.079
C	73±3	2.874±0.118

OUTLINE	REEL (PCS)	PER CARTON (PCS)	CARTON SIZE(mm)		
			L	W	H
TAPING	1000	4000	360	360	380

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