

BX201N

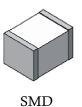
Order Code:

Gas Discharge Tube Version: A0 2016-9-6

Features

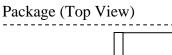
- Small Size Design 4.2×3.5×3.5mm
- Current Handling Capability 3,000A @ 8/20 μ s
- Low Capacitance and Insertion Loss
- Fast Response and Long Service Life
- Moisture sensitivity level: Level 1

Exterior



Application Information

Coaxial



Schematic Symbol



Agency Approvals

Icon	Description			
RoHS	Compliance with 2011/65/EU			
HF	Compliance with IEC61249-2-21:2003			
6 6	Mean lead free			



Electrical Parameter

DC Breakdown Voltage 1)2)	100V/s	140~260	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 750	V
impulse spark-over voltage	At 1kV/μs	Typical values of distribution ≤700	V
Impulse Discharge Current 2)	8/20 μ s	3,000	
Impulse Discharge Current 3)	10 operations [5x (+) & 5x (-)]	3,000	A
Impulse Discharge Voltage 2)	10/700µs	6,000	V
Impulse Discharge Voltage 3)	10 operations [5x (+) & 5x (-)]	8,000	
AC Discharge Current	50Hz, 1S, 10times	3	A
Arc Voltage	At 1A	~10	V
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1MHz	VDC=0.5V	≤0.6	pF
Weight		~0.23	g
Operating And Storage		-40-90	°C
Temperature		-40-90	
Marking		Without	

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



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Part Numbering System

BX 201 N

(1) (2) (3)

(1)Bencent Gas Discharge Tube

(2) Series: DC Breakdown Voltage,

e.g.: $201=20\times10^{1}=200V$

(3) Tolerance of DC Breakdown Voltage, M=+-20%,

N=+-30%, the Specific tolerance is decided by the table

of "Electrical Parameter"

Product Characteristics

Lead Material	Copper or iron nickel alloy
Body Material	Ceramics
Terminal Finish	100% Matte-Tin Plated

Environmental Reliability Characteristics

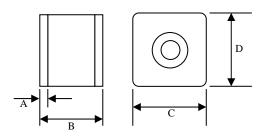
Testing items	Technical standards		
High Temperature Storage Test Temperature: 90°C Time:2H			
Low Temperature Storage Test	Temperature: -40°C Time:2H		
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time: 45min		
Resistance of soldering heat	Temperature: 260±5°C Time of dip soldering: 10s, 1time		

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

Solderability Test

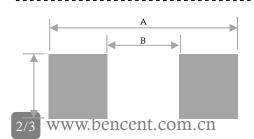
Solderability	Solder Pot Temperature:	245°C ±5°C
	Solder Dwell Time:	4-6 seconds

Product Dimensions



REF	mm	inch
A	0.5±0.1	0.020±0.004
В	4.2±0.3	0.165±0.012
С	3.5±0.2	0.138±0.006
D	3.5±0.2	0.138±0.006

Recommended Soldering Pad



REF	mm	inch
A	4.95	0.195
В	3.0	0.118
С	4.2	0.165

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

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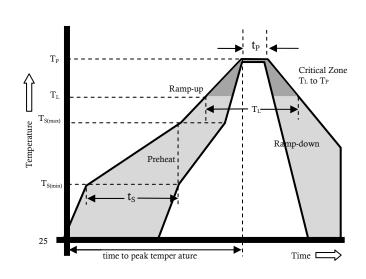


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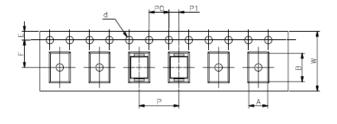
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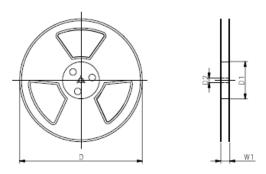
Reflow Profile

	Reflow Condition	Pb-Free assembly	
Б	Temperature Min	150°C	
Pre Heat	Temperature Max	200°C	
неат	Time (min to max)	60 – 180 secs	
Average ramp up rate (Liquids) Tamp (T_L) to peal		3°C/second max	
T _S (max) to T _L - Ramp-up Rate		3°C/second max	
Reflow	- Temperature (T _L) (Liquids)	217°C	
	- Temperature (T _L)	60 – 150 seconds	
Peak Tem	perature (T _P)	260+0/-5 °C	
Time within 5°C of actual peak Temperature (tp)		~10 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T _P)		8 minutes Max.	
Do not exceed		260°C	



Package Reel Information





REF	mm inch			
A	3.8±0.1	0.150±0.004		
В	4.5±0.2	0.177±0.008		
d	Ф1.5±0.1	Ф0.059±0. 004		
P0	4.0±0.1	0.157±0.004		
P1	2.0±0.1	0.079±0.004		
P	8.0±0.1 0.315±0.00			
Е	1.75±0.1	0.069±0.004		
F	5.0±0.1 0.197±0.00			
W	12.0±0.3 0.472±0.012			
D	Ф 330.0 Ф 13.0			
D1	Ф 50 Min Ф 1.97 Min			
D2	Φ13±0.15 0.512±0.006			
W1	16.8±2.0 0.661±0.079			

Outline	Reel Per Carton (PCS)	Per Carton	Reel Diameter (mm)	Carton Size(mm)		
		(PCS)		L	W	Н
TAPING	2,000	32,000	330	360	360	385