

BC201N

Order Code: BC201N

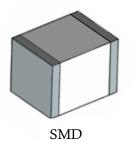
Version: A1 2017-08-08

Gas Discharge Tube

Features

- Small Size Design EIA 1812 4.5×3.2×2.7mm
- Current Handling Capability 2,000A @ 8/20µ 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

Coaxial

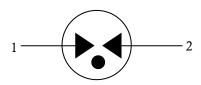
Package (Top View)



Agency App	rovals		Sch
		$\overline{}$	

Icon	Description		
RoHS	Compliance with 2011/65/EU		
HF	Compliance with IEC61249-2-21:2003		
8	Mean lead free		
.7U .	Compliance with UL497B, Certificated E232249		

hematic Symbol



Electrical Parameter

DC Breakdown Voltage 1)2)	100V/s	140-260	V
Impulse Spark-over Voltage	At 1kV/µs	for 99 % of measured values ≤ 800	V
impuise spark-over voitage	At 1kV/µs	Typical values of distribution ≤ 700	V
Impulse Discharge Current 3)	8/20µs	2,000	A
Arc Voltage	At 1A	~8	V
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1 MHz	VDC=0.5V	≤1.0	pF
Weight		~0.20	g
Operating And Storage Temperature		-40-90	${\mathbb C}$
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

BC 201 N (1) (2) (3)

- (1) Bencent Gas Discharge Tube
- (2) Series: DC Breakdown Voltage, e.g.: 201=20×101=200V
- (3) Tolerance of DC Breakdown Voltage, M=+-20%,

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

Product Characteristics

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

Environmental Reliability Characteristics

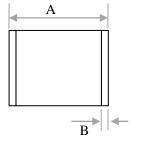
Testing items	Technical standards		
High Temperature Storage Test	Temperature: 90 °C Time: 2H		
Low Temperature Storage Test	Temperature: -40°C Time: 2H		
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time: 45mins		
Resistance of soldering heat	Temperature: 260±5 °C Time of dip soldering: 10s, 1time		

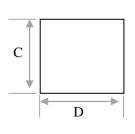
Note: Up-screen program can be specified by customer's request via contacting Bencent service

Solderability Test

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

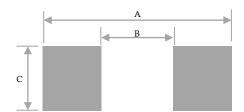
Product Dimensions





REF	mm	inch
A	4.5±0.3	0.177±0.012
В	0.5±0.2	0.020±0.008
С	2.7±0.2	0.106±0.008
D	3.2±0.2	0.126±0.008

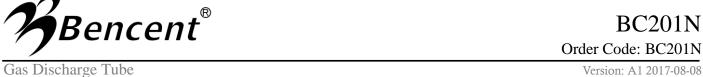
Recommended Soldering Pad



REF	mm	inch
A	5.5	0.217
В	3.5	0.138
С	3.5	0.138

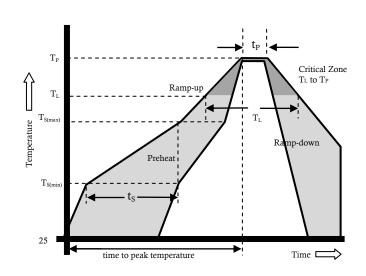
[&]quot;Electrical Parameter"



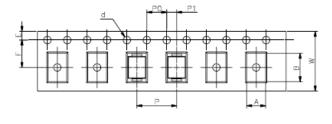


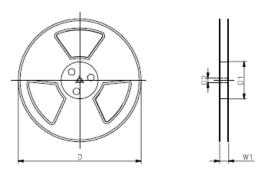
Reflow Profile

	Re	eflow Condition	Pb-Free assembly		
Ъ	Temperature Min		150 ℃		
Pre Heat	Te	mperature Max	200 ℃		
пеаі	Ti	me (min to max)	60 – 180 secs		
Average ramp up rate (Liquids) Tamp (T_L) to peal		o up rate (Liquids) Tamp	3 °C/second max		
T _S (max) t	T _S (max) to T _L - Ramp-up Rate		3 ℃/second max		
Reflow		- Temperature (T_L) (Liquids)	217 ℃		
		- Temperature (T _L)	60 – 150 seconds		
Peak Temperature (T _P)		ature (T _P)	260+0/-5 ℃		
Time within $5 \mathbb{C}$ of actual peak Temperature (tp)			8 – 20 seconds		
Ramp-down Rate		Rate	6 ℃/second max		
Time 25 $^{\circ}$ C to peak Temperature (T_P)		peak Temperature (T _P)	8 minutes Max.		
Do not exceed		d	260 ℃		



Package Reel Information





REF	mm	inch
A	3.7±0.2	0.146±0.008
В	5.0±0.1	0.197±0.004
d	Ф 1.5±0.1	Ф 0.059±0.004
E	1.75±0.1	0.069±0.004
F	5.5±0.1	0.217±0.002
P	8.0±0.1	0.315±0.004
P0	4.0±0.1	0.157±0.004
P1	2.0±0.1	0.079±0.004
W	12.0±0.2	0.472±0.008
D	Ф330.0	Ф13.0
D1	Φ50Min	Φ1.97Min
D2	Φ13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

OUTLINE	REEL PER CARTON (PCS)	REEL DIAMETERS	CARTON SIZE(mm)			
		(PCS)	(mm)	L	W	Н
TAPING	2,500	40,000	330	360	360	380