

BS401N+

Order Code: BS401N+

Gas Discharge Tube

Version: A1 2014-08-26

Features

- Small Size Design EIA 1206 3.2×1.6×1.6mm
- Current Handling Capability 500A @ 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



SMD

Application information

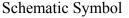
Ethernet

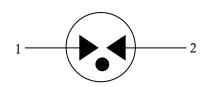
Package (Top View)



Agency Approvals

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





Electrical Parameter

DC Breakdown Voltage 1)2)	100V/s	360-560	V
Impulse Coeff ever Veltere	At 1kV/µs	for 99 % of measured values ≤ 1000	
Impulse Spark-over Voltage	At 1kV/µs	Typical values of distribution : ≤ 850	V
Impulse Discharge Current 3)	$10/700 \mu s \pm 5 \text{ times}$	6,000	V
Impulse Discharge Current	8/20 μ s ± 5 times	500	A
Arc Voltage	At 1A	~8	V
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1MHz	VDC=0.5V	≤0.6	pF
Weight		~0.04	g
Operating And Storage Temperature		-40-90	°C
Marking		Without	

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



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Part Numbering System

BS 401 N + (1) (2) (3) (4)

(1)Bencent Gas Discharge Tube

(2) Series: DC Breakdown Voltage,

e.g.: $401=40\times10^{1}=400V$

(3) Tolerance of DC Breakdown Voltage, N=+-30%, the Specific tolerance is decided by the table of "Electrical Parameter"

(4) "+" means that the DC Breakdown Voltage of BS401N+ is different from BS401N.

Product Characteristics

Lead Material	Fe-Ni Alloy
Body Material	Ceramics
Terminal Finish	100% Matte-Tin Plated

Environmental Reliability Characteristics

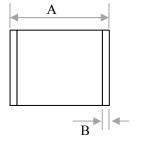
Testing items	Technical standards	
High Temperature Storage Test	Temperature: 85 °C Time:2H	
Low Temperature Storage Test	Temperature: -40°C Time:2H	
Vibration	Frequency: 10-500Hz Amplitude: 0.15mm Time: 45min	
Resistance of soldering heat	Temperature: 260±5°C Time of dip soldering: 10s, 1time	

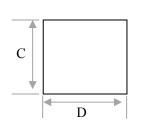
Note: Up-screen program can be specified by customer's request via contacting Bencent service

Solderability Test

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

Product Dimensions





REF	mm	inch
A	3.2±0.3	0.126±0.013
В	0.3±0.2	0.013±0.008
С	1.6±0.2	0.063±0.008
D	1.6±0.2	0.063±0.008

Recommended Soldering Pad

A B

REF	mm	inch
A	4.5	0.177
В	2.0	0.079
С	1.8	0.070

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



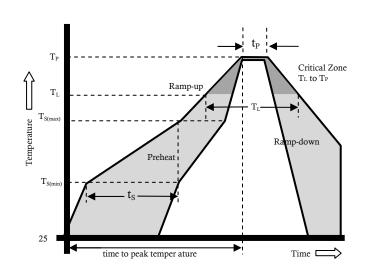
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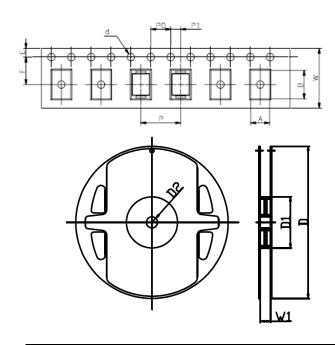
Reflow Profile

Gas Discharge Tube

	Reflow Condition	Pb-Free assembly	
	Temperature Min	150°C	
Pre	Temperature Max	200°C	
Heat	Time (min to max)	60 – 180 secs	
Average ramp up rate (Liquids) Tamp (T_L) to peal		3°C/second max	
T _S (max) t	o 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 with	nin 5°C of actual peak ure (tp)	~6 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	mm inch		
A	1.9±0.2 0.074±0.008			
В	3.6±0.2	0.141±0.008		
d	Φ1.5±0.2	Φ0.059±0.008		
P0	4.0±0.2	0.157±0.008		
P1	2.0±0.2	0.079±0.008		
P	4.0±0.2	0.156±0.008		
Е	1.75±0.2	0.069±0.008		
F	5.5±0.2 0.217±0.008			
W	12.0±0.2	0.472±0.008		
D	$\Phi 178 \pm 2$ $\Phi 7.008 \pm 0.0$			
D1	Ф 50Min Ф 1.97Min			
D2	Φ13±2	0.512±0.079		
W1	12.6±2 0.496±0.079			

Outline	Reel Per Carton (PCS)	Reel Diameter (mm)	Carton Size(mm)			
		(PCS)	Reel Diameter (mm)	L	W	Н
TAPING	2,000	60,000	178	390	370	220

单击下面可查看定价,库存,交付和生命周期等信息

>>Bencent(槟城)