BS3500N-2C

2014-02-12

Order Code: BS3500N-2C

Thyristor Surge Suppresser

Features

- Excellent capability of absorbing transient surge
- Quick response to surge voltage (nS Level)
- Eliminates overvoltage caused by fast rising transients
- Moisture sensitivity level: level 1
- Weight 88 mg
- Non degenerative
- Bi-directional

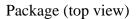
Exterior



SMB-T

Application information

Ethernet

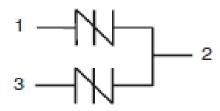




Agency Approvals

Icon	Description		
RoHS	Compliance with 2011/65/EU		
HF	Compliance withIEC61249-2-21:2003		

Schematic Symbol



Part Number and Electrical Parameter

	Idrm@	<i>V</i> DRM	Vs ⁽¹⁾	@ Is	VT	ı It	Ін	Co ²
Part Number	μΑ	V	V	mA	V	A	mA	pF
	MAX	Pin1,3-2	Pin1,3-2		MAX		MAX	MAX
BS3500N-2C	5	320	520	800	4	2.2	400	35

Absolute maximum ratings measured at TA= 25°C RH = 45%-75% (unless otherwise noted).

- ①Vs is measured at 100KV/S
- ② Off-state Capacitance is measured at VDC=2V, VRMS=1V, f=1MHz



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Part Numbering System

BS 3500 N - 2 C (1) (2) (3) (4) (5)

(1)Bencent Semiconductor Surge Arrester

(2)Off state Voltage, e.g. $3500 = 350 \times 10^{0} = 350$ V.

(3) Package : SMB-T(4) 2 Lines Protection

(5) Rating Surge Voltage: 6KV (10/700µS)

B35N2C 1309

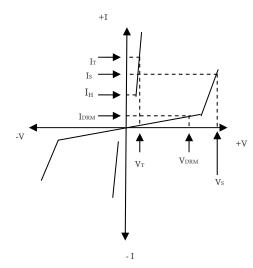
B35N2C: Part Number 1309: Septempter, 2013

V-I Curve

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Mark

Parameters	Definition
Vdrm	Peak Off-state Voltage
Idrm	Off-state Current
Vs	Switching Voltage
Is	Switching Current
Ін	Holding Current
V_{T}	On-state Voltage
Іт	On-state Current
Со	Off-state Capacitance



Surge Ratings

Current Waveform	5/320µs*	10/1000μs
Voltage Waveform	10/700μs*	10/1000μs
Ipp	150A	100A

- -Peak pulse current rating (I_{PP}) is repetitive and guaranteed for the life of the product;
- -Bencent only makes the test for $5/320\mu s@150A^*$ ($10/700\mu s@6KV$), but for other IPP value derived from experience is just for reference only. Bencent will not take any obligation for these parameters, so before applyingour parts, please make sure to verify the parameters listed in the above table.

Thermal Considerations

Symbol	Parameter	Value	Unit
$T_{\rm J}$	Operating Junction Temperature Range	-40 to +150	${\mathbb C}$
Ts	Storage Temperature Range	-60 to +150	$^{\circ}$

Physical Characteristics

Lead Material	Copper Alloy
Body Material	UL recognized epoxy meeting flammability classification 94V-0
Terminal Finish	100% Matte-Tin Plated

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



Thyristor Surge Suppresser

Environmental Characteristics

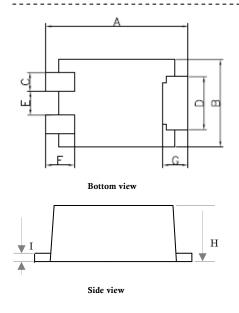
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Testing Items	Technical Standards
High Temperature Reverse Bias Test	Temperature: 150±3°C, Bias=80%V _{DRM} Time:168H
High Temperature Life Test	Temperature: 150°C Time:168H
High-low Temperature Cycle Test	Temperature:From -40°C to125°C Dwell time: 30min, 10-100 cycles
High Temperature & High Humidity Test	Temperature: 85°C Humidity:85% Test time:168H
Pressure Cooker Test	Temperature: 121°C, 2atm. Humidity:100% Test time: 24H to 168H
Resistance of Soldering Heat	Temperature: 260±5°C Time of dip soldering: 10s, 3times

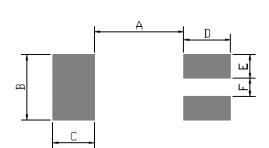
Note: The above testing items can be specified by customers by contacting Bencent service

Product Dimensions



REF	mm	inch
A	5.4±0.3	0.213±0.012
В	3.3±0.3	0.130±0.012
С	0.7±0.03	0.028±0.001
D	2.0±0.2	0.079±0.008
E	0.9±0.2	0.035±0.008
F	1.32±0.3	0.052±0.012
G	1.13±0.3	0.045±0.012
Н	2±0.3	0.079±0.012
I	0.25±0.05	0.010±0.002

Recommended Soldering Pad



REF	mm	inch
A	3.4	0.134
В	2.5	0.098
С	1.6	0.059
D	1.8	0.059
Е	0.9	0.035
F	0.7	0.032

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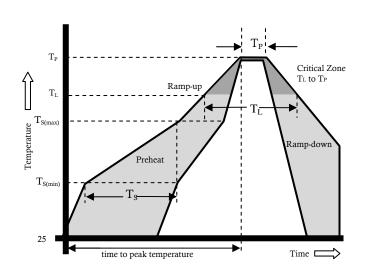
Version: A0



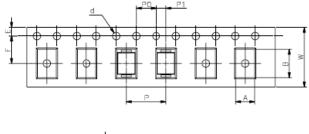
Thyristor Surge Suppresser

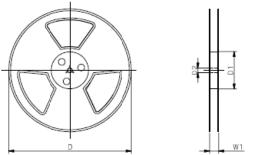
Reflow Profile

Reflow Condition			Pb-Free Assembly	
	Temperature Min.		+150°C	
Pre Heat		emperature Max.	+200°C	
	Ti	me(Min to Max)	60 – 180 secs.	
Average ramp up rate(Liquidus Temp(T_L) to peak)			3°C/sec. Max.	
Ts(max) to	TL -	Ramp-up Rate	3°C/sec. Max.	
		- Temperature (T _L)	+217°C	
Reflow		(Liquidus)	1217	
		- Temperature (T_L)	60 – 150 secs.	
Peak Temp (T _P)		+(260+0/-5)°C		
Time withi	n 5	°C of actual Peak Temp	8 – 15 secs.	
(T_P)		0 – 13 sees.		
Ramp-down Rate		6°C/sec. Max.		
Time 25°C to peak Temp (T _P)		8 min. Max.		
Do not exceed		+260°C		



Package Reel Information





REF	mm	inch
A	3.65+/-0.3	0.144+/-0.012
В	5.69+/-0.3	0.244+/0012
d	1.5+/-0.1	0.059+/-0.004
D	330.0	13.0
D1	100+/-3	3.937+/-0.118
D2	13+/-0.3	0.512+/-0.012
Е	1.5+/-0.2	0.059+/-0.008
F	5.65+/-0.2	0.222+/-0.008
P	8.0+/-0.2	0.315+/-0.008
P0	4.0+/-0.2	0.157+/-0.008
P1	2.0+/-0.2	0.079+/-0.008
W	12.0+/-0.2	0.472+/-0.008
W1	16.8+/-2.0	0.661+/-0.079

Outline	Reel (pcs)	Per Carton (pcs)	Reel Diameters (mm)	Carton Size(mm)		
				L	W	Н
Taping	3,000	24,000	330	360	360	380

单击下面可查看定价,库存,交付和生命周期等信息

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