

# TSS Product Specification

## BSxxxxN-A Thyristor Surge Suppressor



### 1、FEATURES

- Excellent capability of absorbing transient surge
- Quick response to surge voltage
- Eliminates overvoltage caused by fast rising transients
- Non degenerative



### 2、PART NUMBER AND ELECTRICAL PARAMETER @ T=25°C RH = 45%-75%

Part Number	V <sub>DRM</sub>	I <sub>DRM</sub>	V <sub>s</sub>	I <sub>s</sub>	V <sub>T</sub>	I <sub>T</sub>	I <sub>H</sub>	C <sub>o</sub>
	V	μA	V	mA	V	A	mA	pF
		MAX	MAX		MAX		MIN	MAX
BS0060N-A	6	5	25	800	4	2.2	50	60
BS0300N-A	25	5	40	800	4	2.2	50	60
BS0640N-A	58	5	77	800	4	2.2	150	60
BS0800N-A	75	5	98	800	4	2.2	150	60
BS1800N-A	160	5	220	800	4	2.2	150	60
BS2300N-A	190	5	260	800	4	2.2	150	60
BS2600N-A	220	5	300	800	4	2.2	150	50
BS3100N-A	275	5	350	800	4	2.2	150	50
BS3500N-A	320	5	400	800	4	2.2	150	20
BS4200N-A	390	5	500	800	4	2.2	150	20

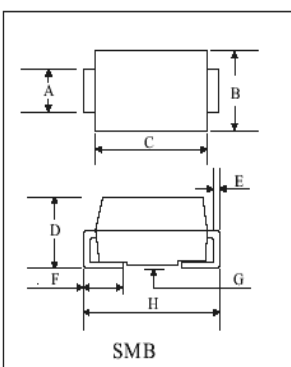
- ①、V<sub>s</sub> is measured at 100KV/S
- ②、Off-state capacitance is measured in V<sub>DC</sub>=2V, V<sub>RMS</sub>=1V, F=1MHz
- ③、All measurements are made at an ambient temperature of 25°C

### 3、PART NUMBERING SYSTEM

**BS**      xxxx      N      A  
 (1)          (2)          (3)          (4)

- (1) Bencent Semiconductor Surge Arrester
- (2) Series: 0060, 0300, 0640, 0800, 1800, 2300, 2600, 3100, 3500, 4200 etc.
- (3) Package : SMB
- (4) Rating Surge Voltage: 3KV(10/700μS)

### 4、DIMENSIONS AND MARKING



Size	A (mm)	B (mm)	C (mm)	D (mm)
SMB	1.96--2.21	3.30--3.94	4.06—4.57	1.95—2.62
Size	E (mm)	F (mm)	G (mm)	H (mm)
SMB	0.15—0.31	0.76—1.52	0.05—0.20	5.21—5.59

MARKING:

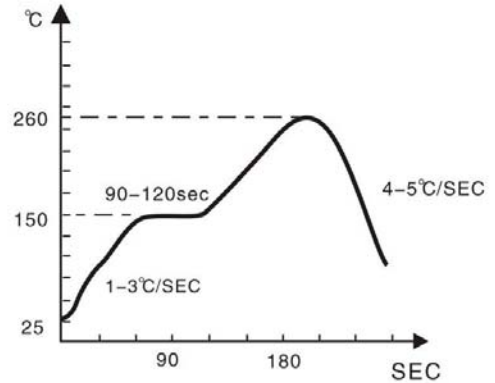
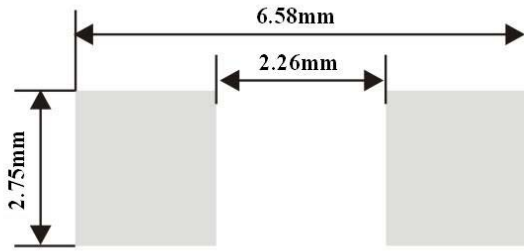
B35NA      Part Number  
 0909      Production Date  
 0909 means 9<sup>th</sup> month, 2009

# TSS Product Specification

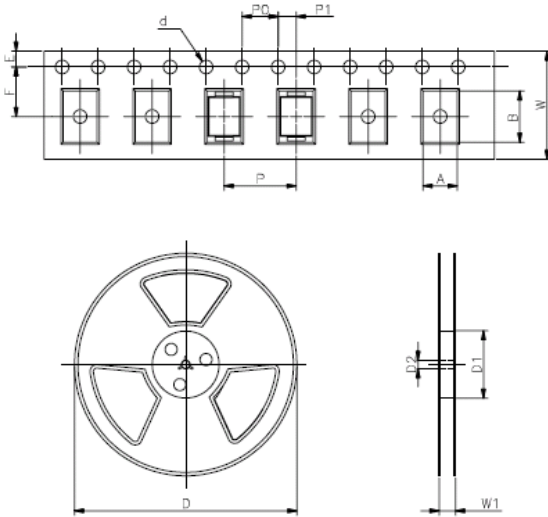
## BSxxxxN-A Thyristor Surge Suppressor



### 5. RECOMMENDED SOLDERING PAD AND REFLOW PROFILE



### 6. PACKAGE REEL INFORMATION



SMB ( DO-214AA)

REF.	mm(inch)
A	3.65+/-0.1(.144+/-0.004)
B	5.69+/-0.1(.244+/-0.004)
d	1.5+/-0.1(.059+/-0.004)
D	330.0(13.0)
D1	50Min
D2	13+/-0.15(.512+/-0.020)
E	1.5+/-0.1(.059+/-0.004)
F	5.65+/-0.05(.222+/-0.002)
P	8.0+/-0.1(.315+/-0.004)
P0	4.0+/-0.1(.157+/-0.004)
P1	2.0+/-0.1(.079+/-0.004)
W	12.0+/-0.2(.472+/-0.008)
W1	16.8+/-2.0(.661+/-0.079)

OUTLINE	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)	CARTON SIZE(mm)		
				L	W	H
TAPING	3,000	24,000	330	360	360	360

#### Remark:

- 1、 Company name change form *Bencent Electronics Limited* to *Shenzhen Bencent Electronics CO., Ltd*

#### Special Notes

- 1、 Shenzhen Bencent Electronics CO., Ltd (BENCENT) reserves the right to make changes without further notice to its products herein.
- 2、 BENCENT does not assumes any liability arising out of the application or usage of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.
- 3、 Any special usage must be authorized by BENCENT in advance; otherwise BENCENT does not take any liability of it.