

# TSS Product Specification

## BSxxxxN-A1 TSS Product



### 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            |
| BS0640N-A1  | 58               | 5                | 77             | 800            | 4              | 2.2            | 120            | 150            |
| BS0720N-A1  | 65               | 5                | 88             | 800            | 4              | 2.2            | 120            | 150            |
| BS0800N-A1  | 75               | 5                | 98             | 800            | 4              | 2.2            | 120            | 150            |
| BS1100N-A1  | 95               | 5                | 130            | 800            | 4              | 2.2            | 120            | 150            |
| BS1300N-A1  | 120              | 5                | 160            | 800            | 4              | 2.2            | 120            | 150            |
| BS1800N-A1  | 160              | 5                | 200            | 800            | 4              | 2.2            | 120            | 150            |

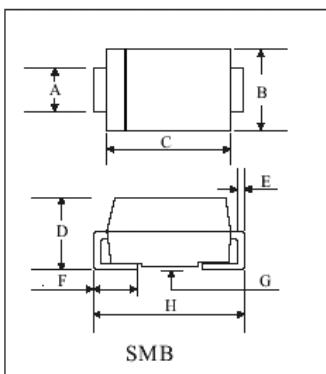
- ①、V<sub>s</sub> is measured at 100KV/S
- ②、Off-state capacitance is measured in V<sub>DC</sub>=2V, V<sub>RMS</sub>=1V, F=1MHz
- ③、All measurements are made at an ambient temperature of 25°C

### 3、PART NUMBERING SYSTEM

**BS**      xxxx      N      A      1  
 (1)          (2)          (3)          (4)          (5)

- (1) Bencent Semiconductor Surge Arrester
- (2) Series: 0640, 0720, 0800, 1100, 1300, 1800 etc.
- (3) Package : SMB
- (4) Rating Surge Voltage: 3KV(10/700μS)
- (5) Polarity: Unidirectional

### 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:

B11NA1  
0909

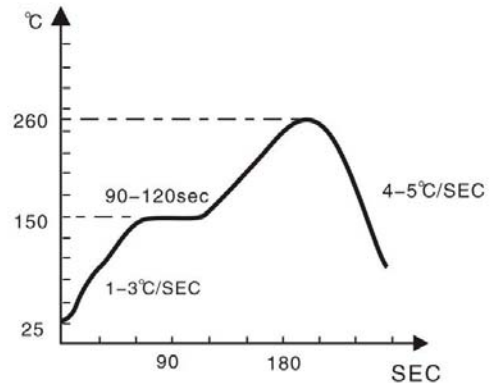
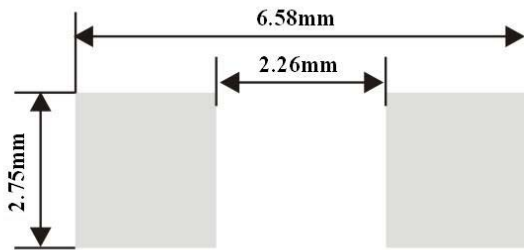
Part Number  
Production Date  
0909 means 9<sup>th</sup> month, 2009

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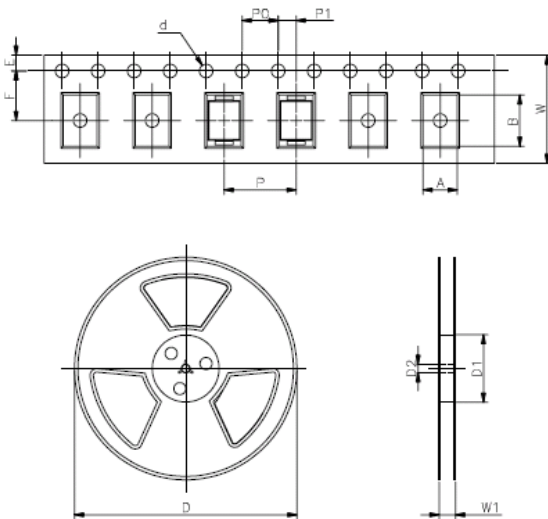
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### 5. RECOMMENDED SOLDERING PAD AND REFLOW PROFILE



### 6. PACKAGE REEL INFORMATION



SMB ( DO-214AA)

| REF. | mm(inch)                  |
|------|---------------------------|
| A    | 3.65+/-0.1(.144+/- .004)  |
| B    | 5.69+/-0.1(.244+/- .004)  |
| d    | 1.5+/-0.1(.059+/- .004)   |
| D    | 330.0(13.0)               |
| D1   | 50Min                     |
| D2   | 13+/-0.15(.512+/- .020)   |
| E    | 1.5+/-0.1(.059+/- .004)   |
| F    | 5.65+/-0.05(.222+/- .002) |
| P    | 8.0+/-0.1(.315+/- .004)   |
| P0   | 4.0+/-0.1(.157+/- .004)   |
| P1   | 2.0+/-0.1(.079+/- .004)   |
| W    | 12.0+/-0.2(.472+/- .008)  |
| W1   | 16.8+/-2.0(.661+/- .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

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