

# SMAJ\*\*\* Series

## SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

### VOLTAGE 5.0 TO 250 Volts

### 400 Watt Peak Pulse Power

#### FEATURES

- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- \* For surface mounted applications in order to optimize board space
- \* Low profile package
- \* Built-in strain relief
- \* Glass passivated junction
- \* Low inductance
- \* Excellent clamping capability
- \* Repetition Rate (duty cycle): 0.01%
- \* Fast response time: typically less than 1.0ps from 0 Volts to V(BR) for unidirectional types
- \* Typical IR less than 1mA above 10V
- \* High temperature soldering guaranteed:  
260°C/10 seconds,

#### MECHANICAL DATA

**Case:** JEDEC DO-214AC molded plastic

**Terminals:** Axial leads, solderable per MIL-STD-202, Method 208

**Polarity:** Color band denoted cathode except Bipolar

**Mounting Position:** Any

**Weight:** 0.0023 ounce, 0.065 gram

#### 1.DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types SMAJ5.0CA thru types SMAJ250CA

Electrical characteristics apply in both directions.marking like Uni; without color band.

#### MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| RATING                                                                                                    | SYMBOL             | VALUE       | UNITS |
|-----------------------------------------------------------------------------------------------------------|--------------------|-------------|-------|
| Peak Power Dissipation at $T_A=25^{\circ}\text{C}$ , $T_P=1\text{ms}$ (Note 1)                            | $P_{\text{PPM}}$   | Minimum 400 | Watts |
| Steady State Power Dissipation at $T_L=75^{\circ}\text{C}$ (Note 2)                                       | $P_{\text{M(AV)}}$ | 1.0         | Watts |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JECED Method) (Note 3) | $I_{\text{FSM}}$   | 30          | Amps  |
| Operating Temperature Range                                                                               | $T_J$              | -55 to +150 | °C    |
| Storage Temperature Range                                                                                 | $T_{\text{STG}}$   | -55 to +175 | °C    |

NOTES:

1. Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25^{\circ}\text{C}$  per Fig. 2.
2. Mounted on Copper Leaf area of 1.57in<sup>2</sup>(40mm<sup>2</sup>).
3. 8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.



We declare that the material of product compliance with ROHS requirements

## SMAJ\*\*\* Series

| Uni-<br>Directional<br>Part<br>Number | Device marking<br>code | Reverse<br>Stand-off<br>Voltage<br>VRWM (V) | Breakdown<br>Voltage<br>VBR (V)<br>Min. @IT | Breakdown<br>Voltage<br>VBR (V)<br>Max. @IT | Test<br>Current<br>IT<br>(mA) | Maximum<br>Clamping<br>Voltage<br>@IPP VC (V) | Peak<br>Pulse<br>Current<br>Ipp (A) | Reverse<br>Leakage<br>@VRWM<br>IR (uA) |
|---------------------------------------|------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------|-----------------------------------------------|-------------------------------------|----------------------------------------|
| SMAJ5.0                               | AD                     | 5.00                                        | 6.40                                        | 7.00                                        | 10.00                         | 9.20                                          | 43.50                               | 800                                    |
| SMAJ5.0A                              | AE                     | 5.00                                        | 6.40                                        | 7.00                                        | 10.00                         | 9.20                                          | 43.50                               | 800                                    |
| SMAJ6.0                               | AF                     | 6.00                                        | 6.67                                        | 7.37                                        | 10.00                         | 10.30                                         | 38.80                               | 800                                    |
| SMAJ6.0A                              | AG                     | 6.00                                        | 6.67                                        | 7.37                                        | 10.00                         | 10.30                                         | 38.80                               | 800                                    |
| SMAJ6.5                               | AH                     | 6.50                                        | 7.22                                        | 7.98                                        | 10.00                         | 11.20                                         | 35.70                               | 500                                    |
| SMAJ6.5A                              | AK                     | 6.50                                        | 7.22                                        | 7.98                                        | 10.00                         | 11.20                                         | 35.70                               | 500                                    |
| SMAJ7.0                               | AL                     | 7.00                                        | 7.78                                        | 8.60                                        | 10.00                         | 12.00                                         | 33.30                               | 200                                    |
| SMAJ7.0A                              | AM                     | 7.00                                        | 7.78                                        | 8.60                                        | 10.00                         | 12.00                                         | 33.30                               | 200                                    |
| SMAJ7.5                               | AN                     | 7.50                                        | 8.33                                        | 9.21                                        | 1.00                          | 12.90                                         | 31.00                               | 100                                    |
| SMAJ7.5A                              | AP                     | 7.50                                        | 8.33                                        | 9.21                                        | 1.00                          | 12.90                                         | 31.00                               | 100                                    |
| SMAJ8.0                               | AQ                     | 8.00                                        | 8.89                                        | 9.83                                        | 1.00                          | 13.60                                         | 29.40                               | 50                                     |
| SMAJ8.0A                              | AR                     | 8.00                                        | 8.89                                        | 9.83                                        | 1.00                          | 13.60                                         | 29.40                               | 50                                     |
| SMAJ8.5                               | AS                     | 8.50                                        | 9.44                                        | 10.40                                       | 1.00                          | 14.40                                         | 27.80                               | 20                                     |
| SMAJ8.5A                              | AT                     | 8.50                                        | 9.44                                        | 10.40                                       | 1.00                          | 14.40                                         | 27.80                               | 20                                     |
| SMAJ9.0                               | AU                     | 9.00                                        | 10.00                                       | 11.10                                       | 1.00                          | 15.40                                         | 26.00                               | 10                                     |
| SMAJ9.0A                              | AV                     | 9.00                                        | 10.00                                       | 11.10                                       | 1.00                          | 15.40                                         | 26.00                               | 10                                     |
| SMAJ10                                | AW                     | 10.00                                       | 11.10                                       | 12.30                                       | 1.00                          | 17.00                                         | 23.50                               | 1                                      |
| SMAJ10A                               | AX                     | 10.00                                       | 11.10                                       | 12.30                                       | 1.00                          | 17.00                                         | 23.50                               | 1                                      |
| SMAJ11                                | AY                     | 11.00                                       | 12.20                                       | 13.50                                       | 1.00                          | 18.20                                         | 22.00                               | 1                                      |
| SMAJ11A                               | AZ                     | 11.00                                       | 12.20                                       | 13.50                                       | 1.00                          | 18.20                                         | 22.00                               | 1                                      |
| SMAJ12                                | BD                     | 12.00                                       | 13.30                                       | 14.70                                       | 1.00                          | 19.90                                         | 20.10                               | 1                                      |
| SMAJ12A                               | BE                     | 12.00                                       | 13.30                                       | 14.70                                       | 1.00                          | 19.90                                         | 20.10                               | 1                                      |
| SMAJ13                                | BF                     | 13.00                                       | 14.40                                       | 15.90                                       | 1.00                          | 21.50                                         | 18.60                               | 1                                      |
| SMAJ13A                               | BG                     | 13.00                                       | 14.40                                       | 15.90                                       | 1.00                          | 21.50                                         | 18.60                               | 1                                      |
| SMAJ14                                | BH                     | 14.00                                       | 15.60                                       | 17.20                                       | 1.00                          | 23.20                                         | 17.20                               | 1                                      |
| SMAJ14A                               | BK                     | 14.00                                       | 15.60                                       | 17.20                                       | 1.00                          | 23.20                                         | 17.20                               | 1                                      |
| SMAJ15                                | BL                     | 15.00                                       | 16.70                                       | 18.50                                       | 1.00                          | 24.40                                         | 16.40                               | 1                                      |
| SMAJ15A                               | BM                     | 15.00                                       | 16.70                                       | 18.50                                       | 1.00                          | 24.40                                         | 16.40                               | 1                                      |
| SMAJ16                                | BN                     | 16.00                                       | 17.80                                       | 19.70                                       | 1.00                          | 26.00                                         | 15.40                               | 1                                      |
| SMAJ16A                               | BP                     | 16.00                                       | 17.80                                       | 19.70                                       | 1.00                          | 26.00                                         | 15.40                               | 1                                      |
| SMAJ17                                | BQ                     | 17.00                                       | 18.90                                       | 20.90                                       | 1.00                          | 27.60                                         | 14.50                               | 1                                      |
| SMAJ17A                               | BR                     | 17.00                                       | 18.90                                       | 20.90                                       | 1.00                          | 27.60                                         | 14.50                               | 1                                      |
| SMAJ18                                | BS                     | 18.00                                       | 20.00                                       | 22.10                                       | 1.00                          | 29.20                                         | 13.70                               | 1                                      |
| SMAJ18A                               | BT                     | 18.00                                       | 20.00                                       | 22.10                                       | 1.00                          | 29.20                                         | 13.70                               | 1                                      |
| SMAJ20                                | BU                     | 20.00                                       | 22.20                                       | 24.50                                       | 1.00                          | 32.40                                         | 12.30                               | 1                                      |
| SMAJ20A                               | BV                     | 20.00                                       | 22.20                                       | 24.50                                       | 1.00                          | 32.40                                         | 12.30                               | 1                                      |
| SMAJ22                                | BW                     | 22.00                                       | 24.40                                       | 26.90                                       | 1.00                          | 35.50                                         | 11.30                               | 1                                      |
| SMAJ22A                               | BX                     | 22.00                                       | 24.40                                       | 26.90                                       | 1.00                          | 35.50                                         | 11.30                               | 1                                      |
| SMAJ24                                | BY                     | 24.00                                       | 26.70                                       | 29.50                                       | 1.00                          | 38.90                                         | 10.30                               | 1                                      |
| SMAJ24A                               | BZ                     | 24.00                                       | 26.70                                       | 29.50                                       | 1.00                          | 38.90                                         | 10.30                               | 1                                      |
| SMAJ26                                | CD                     | 26.00                                       | 28.90                                       | 31.90                                       | 1.00                          | 42.10                                         | 9.50                                | 1                                      |
| SMAJ26A                               | CE                     | 26.00                                       | 28.90                                       | 31.90                                       | 1.00                          | 42.10                                         | 9.50                                | 1                                      |
| SMAJ28                                | CF                     | 28.00                                       | 31.10                                       | 34.40                                       | 1.00                          | 45.40                                         | 8.80                                | 1                                      |
| SMAJ28A                               | CG                     | 28.00                                       | 31.10                                       | 34.40                                       | 1.00                          | 45.40                                         | 8.80                                | 1                                      |
| SMAJ30                                | CH                     | 30.00                                       | 33.30                                       | 36.80                                       | 1.00                          | 48.40                                         | 8.30                                | 1                                      |
| SMAJ30A                               | CK                     | 30.00                                       | 33.30                                       | 36.80                                       | 1.00                          | 48.40                                         | 8.30                                | 1                                      |
| SMAJ33                                | CL                     | 33.00                                       | 36.70                                       | 40.60                                       | 1.00                          | 53.30                                         | 7.50                                | 1                                      |
| SMAJ33A                               | CM                     | 33.00                                       | 36.70                                       | 40.60                                       | 1.00                          | 53.30                                         | 7.50                                | 1                                      |
| SMAJ36                                | CN                     | 36.00                                       | 40.00                                       | 44.20                                       | 1.00                          | 58.10                                         | 6.90                                | 1                                      |
| SMAJ36A                               | CP                     | 36.00                                       | 40.00                                       | 44.20                                       | 1.00                          | 58.10                                         | 6.90                                | 1                                      |
| SMAJ40                                | CQ                     | 40.00                                       | 44.40                                       | 49.10                                       | 1.00                          | 64.50                                         | 6.20                                | 1                                      |
| SMAJ40A                               | CR                     | 40.00                                       | 44.40                                       | 49.10                                       | 1.00                          | 64.50                                         | 6.20                                | 1                                      |

## SMAJ\*\*\* Series

|          |    |        |        |        |      |        |      |   |
|----------|----|--------|--------|--------|------|--------|------|---|
| SMAJ43   | CS | 43.00  | 47.80  | 52.80  | 1.00 | 69.40  | 5.80 | 1 |
| SMAJ43A  | CT | 43.00  | 47.80  | 52.80  | 1.00 | 69.40  | 5.80 | 1 |
| SMAJ45   | CU | 45.00  | 50.00  | 55.30  | 1.00 | 72.70  | 5.50 | 1 |
| SMAJ45A  | CV | 45.00  | 50.00  | 55.30  | 1.00 | 72.70  | 5.50 | 1 |
| SMAJ48   | CW | 48.00  | 53.30  | 58.90  | 1.00 | 77.40  | 5.20 | 1 |
| SMAJ48A  | CX | 48.00  | 53.30  | 58.90  | 1.00 | 77.40  | 5.20 | 1 |
| SMAJ51   | CY | 51.00  | 56.70  | 62.70  | 1.00 | 82.40  | 4.90 | 1 |
| SMAJ51A  | CZ | 51.00  | 56.70  | 62.70  | 1.00 | 82.40  | 4.90 | 1 |
| SMAJ54   | RD | 54.00  | 60.00  | 66.30  | 1.00 | 87.10  | 4.60 | 1 |
| SMAJ54A  | RE | 54.00  | 60.00  | 66.30  | 1.00 | 87.10  | 4.60 | 1 |
| SMAJ58   | RF | 58.00  | 64.40  | 71.20  | 1.00 | 93.60  | 4.30 | 1 |
| SMAJ58A  | RG | 58.00  | 64.40  | 71.20  | 1.00 | 93.60  | 4.30 | 1 |
| SMAJ60   | RH | 60.00  | 66.70  | 73.70  | 1.00 | 96.80  | 4.10 | 1 |
| SMAJ60A  | RK | 60.00  | 66.70  | 73.70  | 1.00 | 96.80  | 4.10 | 1 |
| SMAJ64   | RL | 64.00  | 71.10  | 78.60  | 1.00 | 103.00 | 3.90 | 1 |
| SMAJ64A  | RM | 64.00  | 71.10  | 78.60  | 1.00 | 103.00 | 3.90 | 1 |
| SMAJ70   | RN | 70.00  | 77.80  | 86.00  | 1.00 | 113.00 | 3.50 | 1 |
| SMAJ70A  | RP | 70.00  | 77.80  | 86.00  | 1.00 | 113.00 | 3.50 | 1 |
| SMAJ75   | RQ | 75.00  | 83.30  | 92.10  | 1.00 | 121.00 | 3.30 | 1 |
| SMAJ75A  | RR | 75.00  | 83.30  | 92.10  | 1.00 | 121.00 | 3.30 | 1 |
| SMAJ78   | RS | 78.00  | 86.70  | 95.80  | 1.00 | 126.00 | 3.20 | 1 |
| SMAJ78A  | RT | 78.00  | 86.70  | 95.80  | 1.00 | 126.00 | 3.20 | 1 |
| SMAJ85   | RU | 85.00  | 94.40  | 104.00 | 1.00 | 137.00 | 2.90 | 1 |
| SMAJ85A  | RV | 85.00  | 94.40  | 104.00 | 1.00 | 137.00 | 2.90 | 1 |
| SMAJ90   | RW | 90.00  | 100.00 | 111.00 | 1.00 | 146.00 | 2.70 | 1 |
| SMAJ90A  | RX | 90.00  | 100.00 | 111.00 | 1.00 | 146.00 | 2.70 | 1 |
| SMAJ100  | RY | 100.00 | 111.00 | 123.00 | 1.00 | 162.00 | 2.50 | 1 |
| SMAJ100A | RZ | 100.00 | 111.00 | 123.00 | 1.00 | 162.00 | 2.50 | 1 |
| SMAJ110  | SD | 110.00 | 122.00 | 135.00 | 1.00 | 177.00 | 2.30 | 1 |
| SMAJ110A | SE | 110.00 | 122.00 | 135.00 | 1.00 | 177.00 | 2.30 | 1 |
| SMAJ120  | SF | 120.00 | 133.00 | 147.00 | 1.00 | 193.00 | 2.10 | 1 |
| SMAJ120A | SG | 120.00 | 133.00 | 147.00 | 1.00 | 193.00 | 2.10 | 1 |
| SMAJ130  | SH | 130.00 | 144.00 | 159.00 | 1.00 | 209.00 | 1.90 | 1 |
| SMAJ130A | SK | 130.00 | 144.00 | 159.00 | 1.00 | 209.00 | 1.90 | 1 |
| SMAJ150  | SL | 150.00 | 167.00 | 185.00 | 1.00 | 243.00 | 1.60 | 1 |
| SMAJ150A | SM | 150.00 | 167.00 | 185.00 | 1.00 | 243.00 | 1.60 | 1 |
| SMAJ160  | SN | 160.00 | 178.00 | 197.00 | 1.00 | 259.00 | 1.50 | 1 |
| SMAJ160A | SP | 160.00 | 178.00 | 197.00 | 1.00 | 259.00 | 1.50 | 1 |
| SMAJ170  | SQ | 170.00 | 189.00 | 209.00 | 1.00 | 275.00 | 1.50 | 1 |
| SMAJ170A | SR | 170.00 | 189.00 | 209.00 | 1.00 | 275.00 | 1.50 | 1 |
| SMAJ180A | ST | 180.00 | 198.00 | 221.00 | 1.00 | 291.00 | 1.40 | 1 |
| SMAJ190A | SV | 190.00 | 209.00 | 233.00 | 1.00 | 307.00 | 1.30 | 1 |
| SMAJ200A | SX | 200.00 | 220.00 | 246.00 | 1.00 | 324.00 | 1.30 | 1 |
| SMAJ220A | SY | 220.00 | 246.00 | 272.00 | 1.00 | 356.00 | 1.20 | 1 |
| SMAJ250A | SZ | 250.00 | 279.00 | 309.00 | 1.00 | 405.00 | 1.00 | 1 |

For bidirectional type having  $V_{rwm}$  of 10 volts and less, the IR limit is double.  
For parts without A, the VBR is + 10%

## SMAJ\*\*\* Series

### 2. Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted )

Fig. 1-Peak Pulse Power Rating Curve

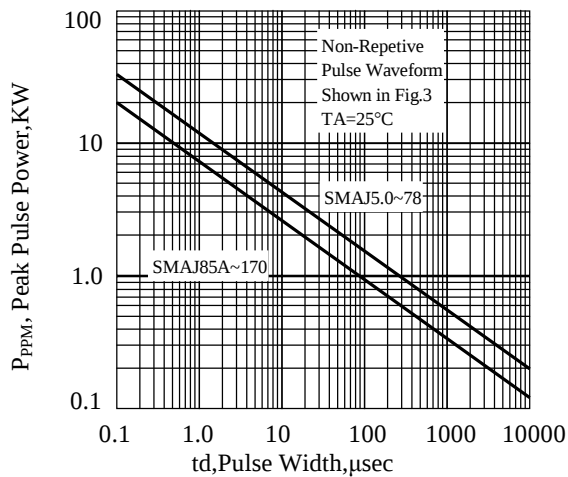


Fig. 2-Pulse Derating Curve

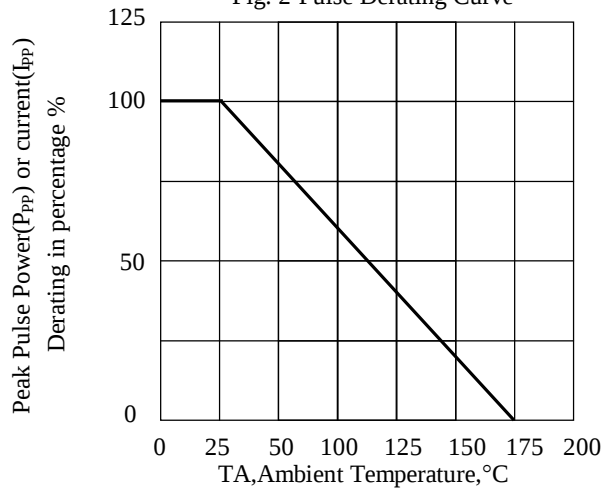


Fig. 3-Pulse Waveform

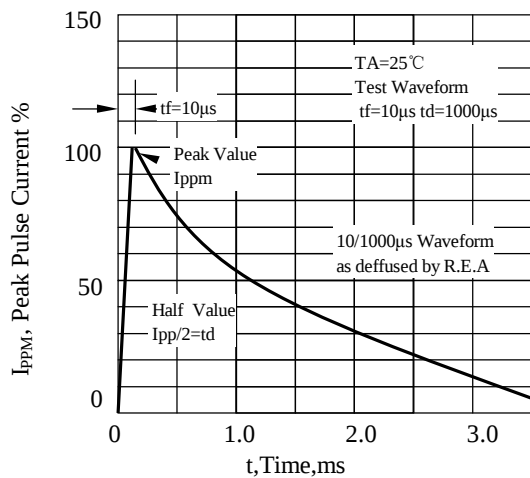


Fig. 4-Typical Junction Capacitance Unidirectional

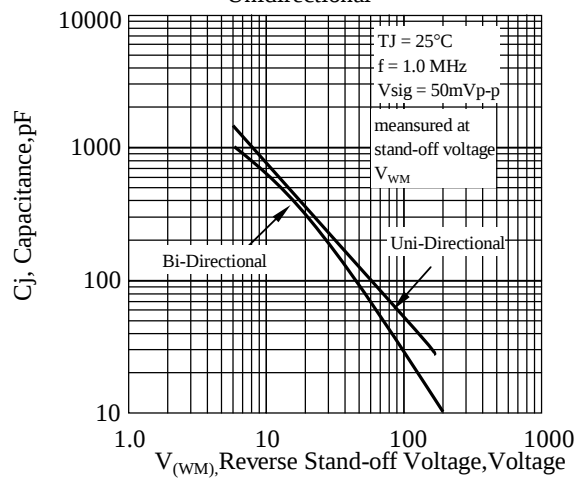


Fig 5. - typical transient thermal impedance

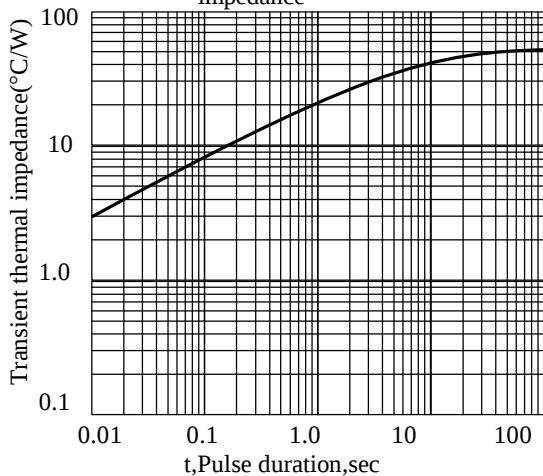
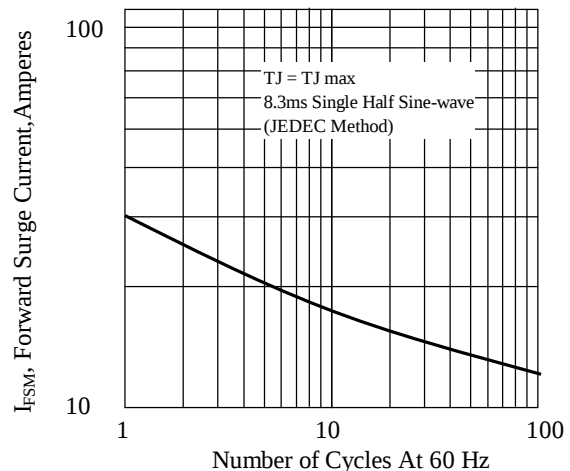
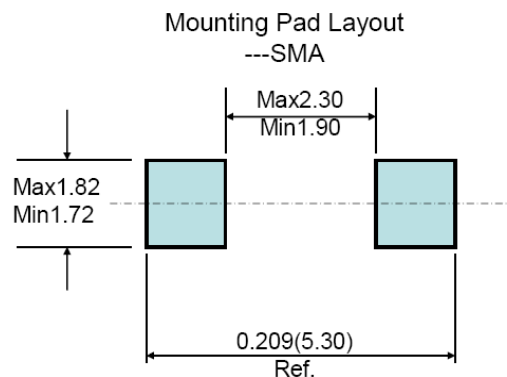
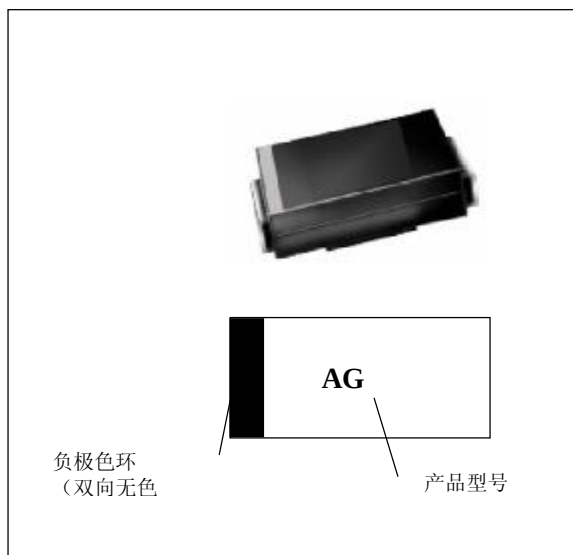
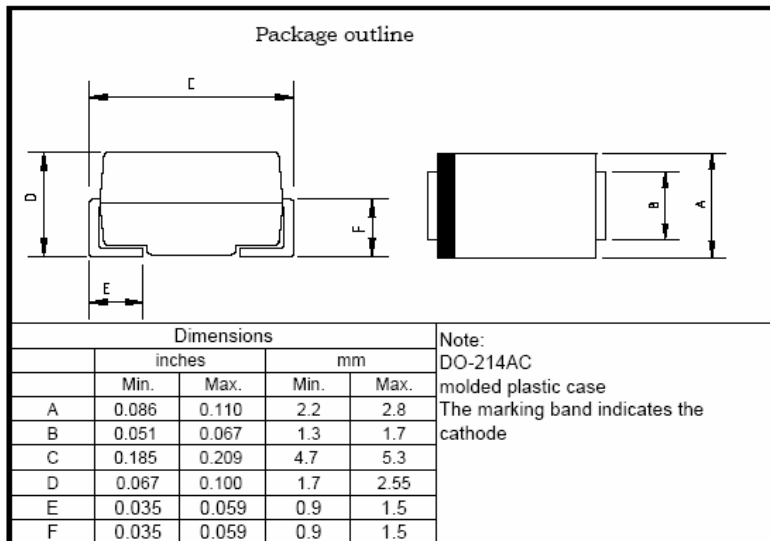


Fig. 6-Maximum Non-Repetitive Peak Forward Surge Current Unidirectional



## SMAJ\*\*\* Series

### 3. dimension:



**LRC**乐山无线电股份有限公司  
Leshan Radio Company, Ltd

标题Title:

**塑封生产线SMD产品包装规范**  
**Packaging specification of SMD**

文件编号: WI-258

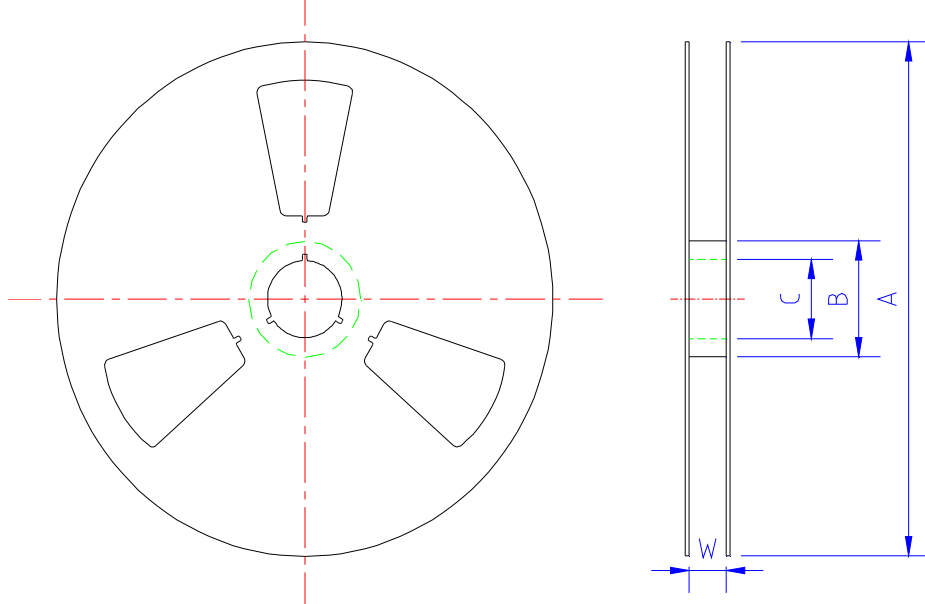
第 3 版 第 0 次修改

第 2 页

SMD产品通用包装材料规格以及包装产品数量  
General packaging materials spec. and quantity

## 1.1 卷装 reel

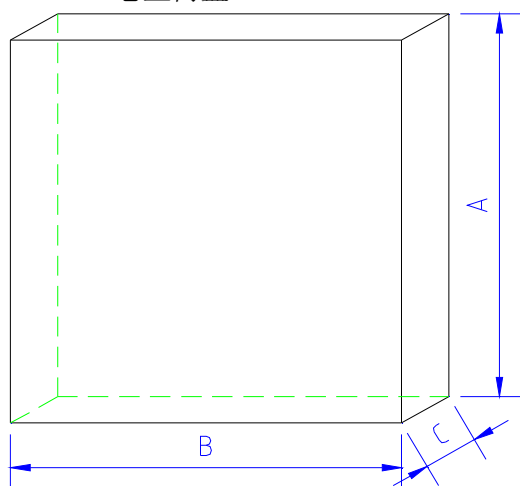
## A. 卷盘规格 reel spec



单位: mm

| 规格       | A         | B        | C        | W        | 每卷数量 |
|----------|-----------|----------|----------|----------|------|
| SMA 7"卷盘 | 177.0±2.0 | 54.0±0.5 | 13.0±0.5 | 13.2±0.2 | 2K   |
| SMA13"卷盘 | 330.0±2.0 | 75.0±0.5 | 13.0±0.5 | 13.2±0.2 | 5K   |
| SMB13"卷盘 | 330.0±2.0 | 75.0±0.5 | 13.0±0.5 | 13.5±0.5 | 3K   |
| SMC13"卷盘 | 330.0±2.0 | 75.0±0.5 | 13.0±0.5 | 17.0±0.5 | 3K   |

## B. 13"卷盘内盒 inner box



单位: mm

|    | A       | B       | C      |
|----|---------|---------|--------|
| 尺寸 | 335±5.0 | 335±2.0 | 40±1.0 |

按以上包装方式, 产品包装数量: quantity

| 规格       | 每盒数量 |
|----------|------|
| SMA13"卷盘 | 10K  |
| SMB13"卷盘 | 6K   |
| SMC13"卷盘 | 6K   |

标题Title:

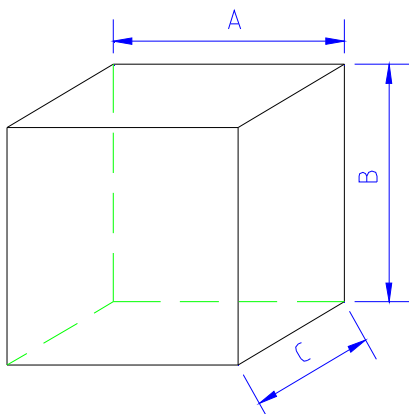
塑封生产线SMD产品包装规范  
Packaging specification of SMD

文件编号: WI-258

文件编号: WI-258

第 3 页

C. 7"卷盘盒 box



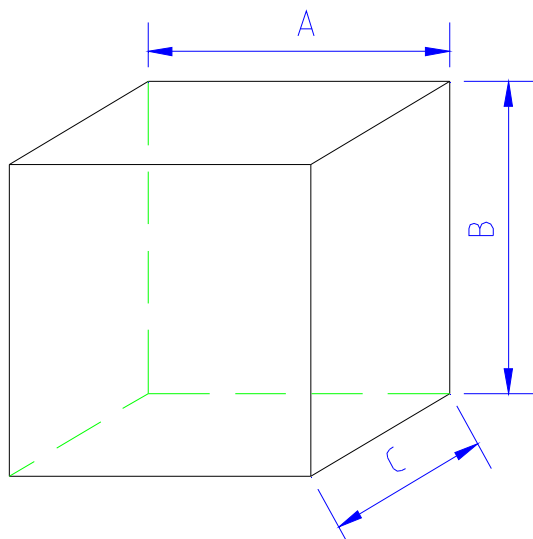
单位: mm

|    | A       | B       | C       |
|----|---------|---------|---------|
| 尺寸 | 188±2.0 | 188±2.0 | 138±2.0 |

按以上包装方式, 产品包装数量: quantity

|      | 每盒数量 |
|------|------|
| 7"卷盘 | 16K  |

D. 卷盘外箱 reel carton



单位: mm

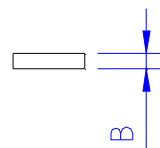
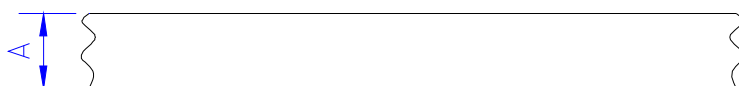
|    | A       | B       | C       |
|----|---------|---------|---------|
| 尺寸 | 350±2.0 | 340±2.0 | 350±2.0 |

按以上包装方式, 产品包装数量:

| 规格       | 每箱数量 |
|----------|------|
| SMA 7"卷盘 | 80K  |
| SMA13"卷盘 | 80K  |
| SMB13"卷盘 | 48K  |
| SMC13"卷盘 | 36K  |

1.2 编带规格 tape spec

A. 盖带 Cover tape



单位: mm

|     | A          | B           |
|-----|------------|-------------|
| SMA | 9.30±0.10  | 0.068±0.005 |
| SMB |            |             |
| SMC |            |             |
|     | 13.30±0.10 |             |

标题Title:

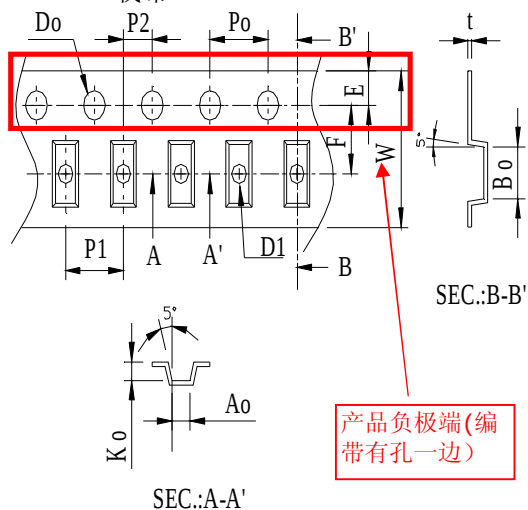
**塑封生产线SMD产品包装规范**  
**Packaging specification of SMD**

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**B. 载带**



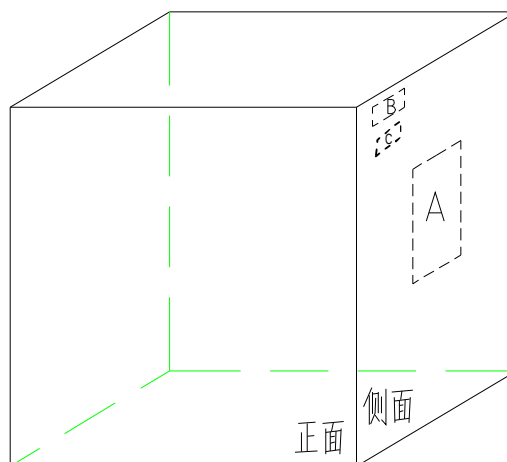
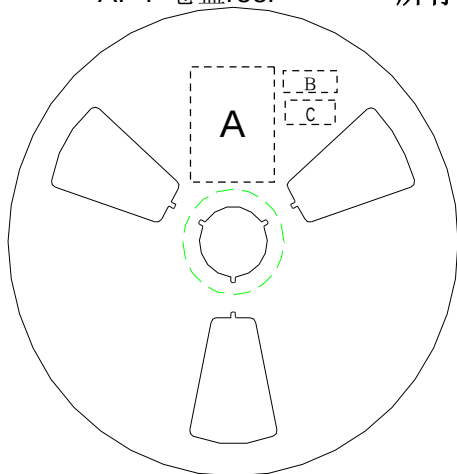
| 类型   | SMA       | SMB       | SMC       |
|------|-----------|-----------|-----------|
| W    | 12±0.3    | 12±0.3    | 16±0.3    |
| P1   | 4±0.1     | 8±0.1     | 8±0.1     |
| E    | 1.75±0.1  | 1.75±0.1  | 1.75±0.1  |
| F    | 5.5±0.05  | 5.5±0.05  | 7.5±0.05  |
| D0   | 1.55±0.05 | 1.55±0.05 | 1.55±0.05 |
| D1   | 1.5±0.1   | 1.55±0.05 | 1.55±0.05 |
| P0   | 4±0.1     | 4±0.1     | 4±0.1     |
| P2   | 2±0.05    | 2±0.05    | 2±0.05    |
| 10P0 | 40±0.2    | 40±0.2    | 40±0.2    |
| A0   | 2.79±0.1  | 3.8±0.1   | 6.05±0.1  |
| B0   | 5.33±0.1  | 5.4±0.1   | 8.31±0.1  |
| K0   | 2.36±0.1  | 2.45±0.1  | 2.54±0.1  |
| T    | 0.25±0.05 | 0.25±0.05 | 0.25±0.05 |

**2、SMD产品通用包装规范 General spec of SMD**

**5.2.1国内客户domestic**

**A. 7"卷盘reel**

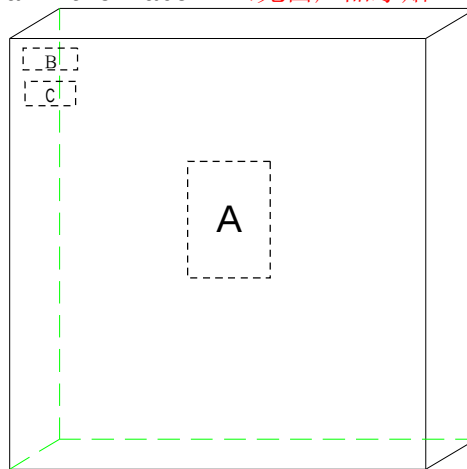
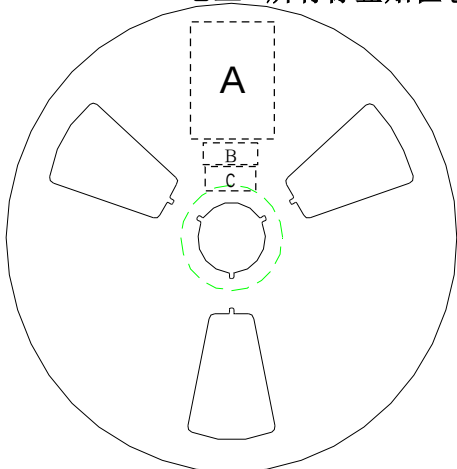
所有标签贴在卷盘负极 all the label on cathode side



A处:贴LRC标签; B处:贴ROHS标签 C处:贴无卤标签 HF label

**B. 13"卷盘**

所有标签贴在卷盘负极 all the label (无卤产品才贴HF only)



A处:贴LRC标签; B处:贴ROHS标签 C处:贴无卤标签 (无卤产品才贴HF only)

标题Title:

塑封生产线SMD产品包装规范  
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C. 标签要求label spec:

LRC标签label

|                   |       |
|-------------------|-------|
| 型号<br>TYPE        | ***** |
| 数量(只)<br>QTY(PCS) | ***** |
| 批号<br>LOT         | ***** |
| 日期<br>DATE        | ***** |
| 检验员:<br>CHECKER   |       |

LRC产品型号 type

产品数量 quantity

产品批号 LOT

产品生产日期 date

ROHS标签

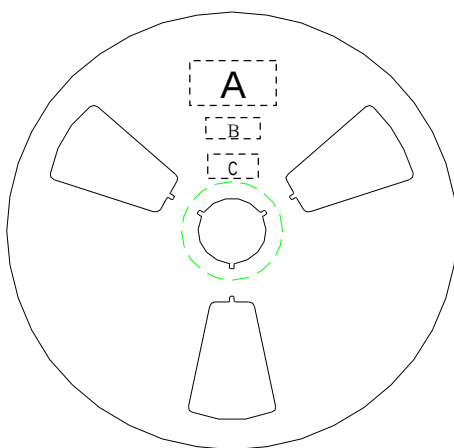


无卤标签 HF label

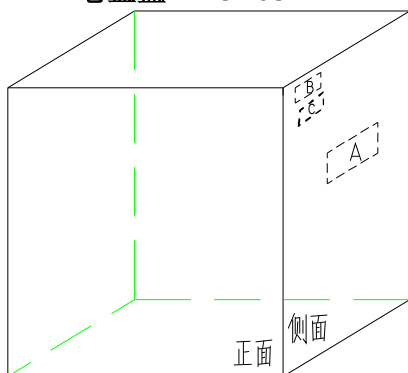
**Green**

2.2 国外客户  
overseas

所有标签贴在卷盘负极 all the label on cathode side



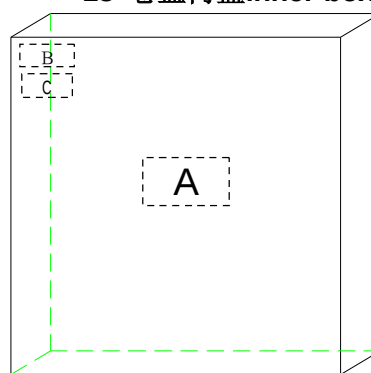
7"卷盘盒 inner box



A处:贴LRC标签;

B处:贴ROHS标签

13"卷盘内盒inner box



C处:贴无卤标签HF label  
(无卤产品才贴HF only)

|                                                                            |               |
|----------------------------------------------------------------------------|---------------|
| 标题Title:<br><b>塑封生产线SMD产品包装规范</b><br><b>Packaging specification of SMD</b> | 文件编号: WI-258  |
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LRC标签label

|            |           |
|------------|-----------|
| TYPE:***** | ← LRC产品型号 |
| MARK:***** | ← 印字型号    |
| Q'TY:***** | ← 产品数量    |
| DATE:***** | ← 产品生产日期  |

ROHS标签



无卤标签 HF label



#### 注意事项NOTE:

- 13"卷盘内盒装好产品,需用热缩膜包装;13"reel'inner box must be packed by shrink film
- 所有编带产品卷装完成后,用白色胶带将编带粘牢;  
every tape after packing, must be fixed by white adhesive tape

#### 3.1产品出厂检验报告 testing report of the OQC

每批出货时,需要附上出厂检验报告 every lot must with test report

#### 3.2尾箱

同一编码每批次只允许出现一个尾数箱,对于尾数物料,须用缓冲材料对空余部分填充好,保证物料在受到一定的外作用力下不发生明显移动,且物料间无碰撞。

The same coding is only one ending for each batch box materials for the mantissa to be good filled with cushioning material.

## SMAJ\*\*\* Series

### 4. Update Record

| 版次 | 更新记录               | 更新作者 | 更新日期      |
|----|--------------------|------|-----------|
| 1  | 第一版                | 周杰   | 2010-4-27 |
| 2  | 调整储存温度为175度        | 周杰   | 2010-9-23 |
| 3  | 增加建议焊片尺寸，调整产品单只重量。 | 周杰   | 2011-12-6 |
| 4  | 明确双向产品印字规范。        | 周杰   | 2012-5-10 |