



## 30V Surface Mount Transient Voltage Suppressor TVS SMAJ30A DO-214AC SMA

Our Product Introduction

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SMAJ30A
- Minimum Order Quantity: 5000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- SMAJ30A Name: TVS Diodes
- SMAJ30A Package Type: DO-214AC/SMA
- SMAJ30A V<sub>rw</sub>m: 30.0V
- SMAJ30A V<sub>br</sub>@I<sub>t</sub> (Min.): 33.30V
- SMAJ30A V<sub>br</sub>@I<sub>t</sub> (Max.): 36.80V
- SMAJ30A I<sub>t</sub>: 1mA
- SMAJ30A V<sub>c</sub>@I<sub>pp</sub>: 48.4V
- SMAJ30A I<sub>pp</sub>: 8.26A
- SMAJ30A I<sub>r</sub>@V<sub>rw</sub>m: 5μA
- SMAJ30A Storage Temperature Range: -55 To +150
- Highlight: **30V Transient Voltage Suppressor TVS, Transient Voltage Suppressor TVS, SMAJ30A**

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## Product Description

### 30V Surface Mount Transient Voltage Suppressor TVS SMAJ30A DO-214AC SMA

**TVS SMAJ30A DATASHEET:** [SMAJ\\_v2207.1.pdf](#)

#### TVS SMAJ30A Summarized Account:

The TVS SMAJ30A is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events. Its Power Dissipation on Infinite Heat Sink at  $T_L=75^\circ\text{C}$  is 1.0W. TVS SMAJ30A's Peak Forward Surge Current 8.3ms Single Half Sine Wave is 40A.

#### TVS SMAJ30A Characteristics:

TVS SMAJ30A is suitable for surface mounted applications in order to optimize board space  
 TVS SMAJ30A has Low leakage  
 TVS SMAJ30A is a Bidirectional unit  
 TVS SMAJ30A is Glass passivated junction  
 TVS SMAJ30A has Low inductance  
 TVS SMAJ30A has Excellent clamping capability  
 TVS SMAJ30A's Peak power capability at  $10 \times 1000\mu\text{s}$  waveform Repetition rate (duty cycle):0.01% is 400 Watts  
 TVS SMAJ30A's Fast response time: typically less than 1.0ps from 0 Volts to VBR min  
 TVS SMAJ30A's Typical IR less than  $5\mu\text{A}$  above 12V  
 TVS SMAJ30A's High Temperature soldering:  $260^\circ\text{C}/40$  seconds at terminals  
 TVS SMAJ30A's Typical maximum temperature coefficient  $\Delta\text{VBR} = 0.1\% \times \text{VBR}@25^\circ\text{C} \times \Delta\text{T}$   
 TVS SMAJ30A's Plastic package has Underwriters Laboratory Flammability 94V-0  
 Matte tin lead-free Plated  
 TVS SMAJ30A has Halogen free and RoHS compliant  
 Typical failure mode is short from over-specified voltage or current  
 TVS SMAJ30A's Whisker test is conducted based on JEDEC JESD201A per its table 4a and 4c  
 IEC-61000-4-2 ESD 15kV(Air), 8kV (Contact)  
 ESD protection of data lines in accordance with IEC 61000-4-2 (IEC801-2)  
 EFT protection of data lines in accordance with IEC 61000-4-4 (IEC801-4)

#### TVS SMAJ30A Electrical Characteristics ( $T_A=25$ unless otherwise noted):

| TVS Part Number |          | TVS Marking |        | TVS Reverse Stand-Off Voltage VRWM(V) | TVS Breakdown Voltage VBR (V) @IT |       | TVS Test Current IT (mA) | TVS Maximum Clamping Voltage VC @IPP (V) | TVS Maximum Peak Pulse Current IPP (A) | TVS Maximum Reverse Leakage IR @VRWM ( $\mu\text{A}$ ) |
|-----------------|----------|-------------|--------|---------------------------------------|-----------------------------------|-------|--------------------------|------------------------------------------|----------------------------------------|--------------------------------------------------------|
| TVS Uni         | TVS Bi   | TVS Uni     | TVS Bi |                                       | MIN                               | MAX   |                          |                                          |                                        |                                                        |
| SMAJ22A         | SMAJ22CA | BX          | XX     | 22.0                                  | 24.40                             | 26.90 | 1                        | 35.5                                     | 11.27                                  | 5                                                      |
| SMAJ24A         | SMAJ24CA | BZ          | XZ     | 24.0                                  | 26.70                             | 29.50 | 1                        | 38.9                                     | 10.28                                  | 5                                                      |
| SMAJ26A         | SMAJ26CA | CE          | YE     | 26.0                                  | 28.90                             | 31.90 | 1                        | 42.1                                     | 9.50                                   | 5                                                      |
| SMAJ28A         | SMAJ28CA | CG          | YG     | 28.0                                  | 31.10                             | 34.40 | 1                        | 45.4                                     | 8.81                                   | 5                                                      |
| SMAJ30A         | SMAJ30CA | CK          | YK     | 30.0                                  | 33.30                             | 36.80 | 1                        | 48.4                                     | 8.26                                   | 5                                                      |

**Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)**

| Part Number |           | Marking |    | Reverse Stand-Off Voltage V <sub>RRM</sub> (V) | Breakdown Voltage V <sub>BR</sub> (V) @I <sub>R</sub> |       | Test Current I <sub>T</sub> (mA) | Maximum Clamping Voltage V <sub>C</sub> @I <sub>CP</sub> (V) | Maximum Peak Pulse Current I <sub>PP</sub> (A) | Maximum Reverse Leakage I <sub>S</sub> @V <sub>RRM</sub> (μA) |
|-------------|-----------|---------|----|------------------------------------------------|-------------------------------------------------------|-------|----------------------------------|--------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------|
| Uni         | Bi        | Uni     | Bi |                                                | MIN                                                   | MAX   |                                  |                                                              |                                                |                                                               |
| SMAJ3.3A    | —         | A1      | —  | 3.3                                            | 4.10                                                  | —     | 1                                | 8.0                                                          | 50.00                                          | 600                                                           |
| SMAJ5.0A    | SMAJ5.0CA | AE      | WE | 5.0                                            | 6.40                                                  | 7.00  | 10                               | 9.2                                                          | 43.48                                          | 800                                                           |
| SMAJ6.0A    | SMAJ6.0CA | AG      | WG | 6.0                                            | 6.67                                                  | 7.37  | 10                               | 10.3                                                         | 38.83                                          | 800                                                           |
| SMAJ6.5A    | SMAJ6.5CA | AK      | WK | 6.5                                            | 7.22                                                  | 7.98  | 10                               | 11.2                                                         | 36.71                                          | 500                                                           |
| SMAJ7.0A    | SMAJ7.0CA | AM      | WM | 7.0                                            | 7.78                                                  | 8.60  | 10                               | 12.0                                                         | 33.33                                          | 200                                                           |
| SMAJ7.5A    | SMAJ7.5CA | AP      | WP | 7.5                                            | 8.33                                                  | 9.21  | 1                                | 12.9                                                         | 31.01                                          | 100                                                           |
| SMAJ8.0A    | SMAJ8.0CA | AR      | WR | 8.0                                            | 8.89                                                  | 9.83  | 1                                | 13.6                                                         | 29.41                                          | 50                                                            |
| SMAJ8.5A    | SMAJ8.5CA | AT      | WT | 8.5                                            | 9.44                                                  | 10.40 | 1                                | 14.4                                                         | 27.78                                          | 10                                                            |
| SMAJ9.0A    | SMAJ9.0CA | AV      | WV | 9.0                                            | 10.00                                                 | 11.10 | 1                                | 15.4                                                         | 25.97                                          | 5                                                             |
| SMAJ10A     | SMAJ10CA  | AX      | WX | 10.0                                           | 11.10                                                 | 12.30 | 1                                | 17.0                                                         | 23.53                                          | 5                                                             |
| SMAJ11A     | SMAJ11CA  | AZ      | WZ | 11.0                                           | 12.20                                                 | 13.50 | 1                                | 18.2                                                         | 21.98                                          | 5                                                             |
| SMAJ12A     | SMAJ12CA  | BE      | XE | 12.0                                           | 13.30                                                 | 14.70 | 1                                | 19.9                                                         | 20.10                                          | 5                                                             |
| SMAJ13A     | SMAJ13CA  | BG      | XG | 13.0                                           | 14.40                                                 | 15.90 | 1                                | 21.5                                                         | 18.60                                          | 5                                                             |
| SMAJ14A     | SMAJ14CA  | BK      | XK | 14.0                                           | 15.60                                                 | 17.20 | 1                                | 23.2                                                         | 17.24                                          | 5                                                             |
| SMAJ15A     | SMAJ15CA  | BM      | XM | 15.0                                           | 16.70                                                 | 18.50 | 1                                | 24.4                                                         | 16.39                                          | 5                                                             |
| SMAJ16A     | SMAJ16CA  | BP      | XP | 16.0                                           | 17.80                                                 | 19.70 | 1                                | 26.0                                                         | 15.38                                          | 5                                                             |
| SMAJ17A     | SMAJ17CA  | BR      | XR | 17.0                                           | 18.90                                                 | 20.90 | 1                                | 27.6                                                         | 14.49                                          | 5                                                             |
| SMAJ18A     | SMAJ18CA  | BT      | XT | 18.0                                           | 20.00                                                 | 22.10 | 1                                | 29.2                                                         | 13.70                                          | 5                                                             |
| SMAJ19A     | SMAJ19CA  | BB      | XB | 19.0                                           | 21.10                                                 | 23.30 | 1                                | 30.8                                                         | 13.00                                          | 5                                                             |
| SMAJ20A     | SMAJ20CA  | BV      | XV | 20.0                                           | 22.20                                                 | 24.50 | 1                                | 32.4                                                         | 12.35                                          | 5                                                             |
| SMAJ22A     | SMAJ22CA  | BX      | XX | 22.0                                           | 24.40                                                 | 26.90 | 1                                | 35.5                                                         | 11.27                                          | 5                                                             |
| SMAJ24A     | SMAJ24CA  | BZ      | XZ | 24.0                                           | 26.70                                                 | 29.50 | 1                                | 38.9                                                         | 10.28                                          | 5                                                             |
| SMAJ26A     | SMAJ26CA  | CE      | YE | 26.0                                           | 28.90                                                 | 31.90 | 1                                | 42.1                                                         | 9.50                                           | 5                                                             |
| SMAJ28A     | SMAJ28CA  | CG      | YG | 28.0                                           | 31.10                                                 | 34.40 | 1                                | 45.4                                                         | 8.81                                           | 5                                                             |
| SMAJ30A     | SMAJ30CA  | CK      | YK | 30.0                                           | 33.30                                                 | 36.80 | 1                                | 48.4                                                         | 8.26                                           | 5                                                             |
| SMAJ33A     | SMAJ33CA  | CM      | YM | 33.0                                           | 36.70                                                 | 40.60 | 1                                | 53.3                                                         | 7.50                                           | 5                                                             |
| SMAJ36A     | SMAJ36CA  | CP      | YP | 36.0                                           | 40.00                                                 | 44.20 | 1                                | 58.1                                                         | 6.88                                           | 5                                                             |
| SMAJ40A     | SMAJ40CA  | CR      | YR | 40.0                                           | 44.40                                                 | 49.10 | 1                                | 64.5                                                         | 6.20                                           | 5                                                             |
| SMAJ43A     | SMAJ43CA  | CT      | YT | 43.0                                           | 47.80                                                 | 52.80 | 1                                | 69.4                                                         | 5.76                                           | 5                                                             |

**Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted) (Continue)**

| Part Number |           | Marking |    | Reverse Stand-Off Voltage V <sub>RRM</sub> (V) | Breakdown Voltage V <sub>BR</sub> (V) @I <sub>R</sub> |        | Test Current I <sub>T</sub> (mA) | Maximum Clamping Voltage V <sub>C</sub> @I <sub>CP</sub> (V) | Maximum Peak Pulse Current I <sub>PP</sub> (A) | Maximum Reverse Leakage I <sub>S</sub> @V <sub>RRM</sub> (μA) |
|-------------|-----------|---------|----|------------------------------------------------|-------------------------------------------------------|--------|----------------------------------|--------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------|
| Uni         | Bi        | Uni     | Bi |                                                | MIN                                                   | MAX    |                                  |                                                              |                                                |                                                               |
| SMAJ45A     | SMAJ45CA  | CV      | YV | 45.0                                           | 50.00                                                 | 55.30  | 1                                | 72.7                                                         | 5.50                                           | 5                                                             |
| SMAJ48A     | SMAJ48CA  | CX      | YX | 48.0                                           | 53.30                                                 | 58.90  | 1                                | 77.4                                                         | 5.17                                           | 5                                                             |
| SMAJ51A     | SMAJ51CA  | CZ      | YZ | 51.0                                           | 56.70                                                 | 62.70  | 1                                | 82.4                                                         | 4.85                                           | 5                                                             |
| SMAJ54A     | SMAJ54CA  | RE      | ZE | 54.0                                           | 60.00                                                 | 66.30  | 1                                | 87.1                                                         | 4.59                                           | 5                                                             |
| SMAJ58A     | SMAJ58CA  | RG      | ZG | 58.0                                           | 64.40                                                 | 71.20  | 1                                | 93.6                                                         | 4.27                                           | 5                                                             |
| SMAJ60A     | SMAJ60CA  | RK      | ZK | 60.0                                           | 66.70                                                 | 73.70  | 1                                | 96.8                                                         | 4.13                                           | 5                                                             |
| SMAJ64A     | SMAJ64CA  | RM      | ZM | 64.0                                           | 71.10                                                 | 78.60  | 1                                | 103.0                                                        | 3.88                                           | 5                                                             |
| SMAJ70A     | SMAJ70CA  | RP      | ZP | 70.0                                           | 77.80                                                 | 86.00  | 1                                | 113.0                                                        | 3.54                                           | 5                                                             |
| SMAJ75A     | SMAJ75CA  | RR      | ZR | 75.0                                           | 83.30                                                 | 92.10  | 1                                | 121.0                                                        | 3.31                                           | 5                                                             |
| SMAJ78A     | SMAJ78CA  | RT      | ZT | 78.0                                           | 86.70                                                 | 95.80  | 1                                | 126.0                                                        | 3.17                                           | 5                                                             |
| SMAJ80A     | SMAJ80CA  | RB      | ZB | 80.0                                           | 88.80                                                 | 97.60  | 1                                | 129.6                                                        | 3.09                                           | 5                                                             |
| SMAJ85A     | SMAJ85CA  | RV      | ZV | 85.0                                           | 94.40                                                 | 104.00 | 1                                | 137.0                                                        | 2.92                                           | 5                                                             |
| SMAJ90A     | SMAJ90CA  | RX      | ZX | 90.0                                           | 100.00                                                | 111.00 | 1                                | 146.0                                                        | 2.74                                           | 5                                                             |
| SMAJ100A    | SMAJ100CA | RZ      | ZZ | 100.0                                          | 111.00                                                | 123.00 | 1                                | 162.0                                                        | 2.47                                           | 5                                                             |
| SMAJ110A    | SMAJ110CA | SE      | VE | 110.0                                          | 122.00                                                | 135.00 | 1                                | 177.0                                                        | 2.26                                           | 5                                                             |
| SMAJ120A    | SMAJ120CA | SG      | VG | 120.0                                          | 133.00                                                | 147.00 | 1                                | 193.0                                                        | 2.07                                           | 5                                                             |
| SMAJ130A    | SMAJ130CA | SK      | VK | 130.0                                          | 144.00                                                | 159.00 | 1                                | 209.0                                                        | 1.91                                           | 5                                                             |
| SMAJ140A    | SMAJ140CA | SB      | VB | 140.0                                          | 155.00                                                | 171.00 | 1                                | 226.8                                                        | 1.76                                           | 5                                                             |
| SMAJ150A    | SMAJ150CA | SM      | VM | 150.0                                          | 167.00                                                | 185.00 | 1                                | 243.0                                                        | 1.65                                           | 5                                                             |
| SMAJ160A    | SMAJ160CA | SP      | VP | 160.0                                          | 178.00                                                | 197.00 | 1                                | 259.0                                                        | 1.54                                           | 5                                                             |
| SMAJ170A    | SMAJ170CA | SR      | VR | 170.0                                          | 189.00                                                | 209.00 | 1                                | 275.0                                                        | 1.45                                           | 5                                                             |
| SMAJ180A    | SMAJ180CA | ST      | VT | 180.0                                          | 201.00                                                | 220.00 | 1                                | 291.6                                                        | 1.37                                           | 5                                                             |
| SMAJ190A    | SMAJ190CA | SV      | VV | 190.0                                          | 211.00                                                | 232.00 | 1                                | 307.8                                                        | 1.30                                           | 5                                                             |
| SMAJ200A    | SMAJ200CA | SW      | VW | 200.0                                          | 224.00                                                | 247.00 | 1                                | 324.0                                                        | 1.23                                           | 5                                                             |
| SMAJ220A    | SMAJ220CA | SX      | VX | 220.0                                          | 246.00                                                | 272.00 | 1                                | 356.0                                                        | 1.12                                           | 5                                                             |
| SMAJ250A    | SMAJ250CA | SZ      | VZ | 250.0                                          | 279.00                                                | 309.00 | 1                                | 405.0                                                        | 0.99                                           | 5                                                             |
| SMAJ300A    | SMAJ300CA | DE      | HE | 300.0                                          | 335.00                                                | 371.00 | 1                                | 486.0                                                        | 0.82                                           | 5                                                             |
| SMAJ350A    | SMAJ350CA | DG      | HG | 350.0                                          | 391.00                                                | 432.00 | 1                                | 567.0                                                        | 0.71                                           | 5                                                             |
| SMAJ400A    | SMAJ400CA | DK      | HK | 400.0                                          | 447.00                                                | 494.00 | 1                                | 648.0                                                        | 0.62                                           | 5                                                             |
| SMAJ440A    | SMAJ440CA | DM      | HM | 440.0                                          | 492.00                                                | 543.00 | 1                                | 713.0                                                        | 0.56                                           | 5                                                             |

## Description

The SMAJ series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

## Features

- ◆ For surface mounted applications in order to optimize board space
- ◆ Low leakage
- ◆ Uni and Bidirectional unit
- ◆ Glass passivated junction
- ◆ Low inductance
- ◆ Excellent clamping capability
- ◆ 400W Peak power capability at  $10 \times 1000\mu\text{s}$  waveform Repetition rate (duty cycle):0.01%
- ◆ Fast response time: typically less than 1.0ps from 0 Volts to  $V_{BR}$  min
- ◆ Typical  $I_R$  less than 5 $\mu\text{A}$  above 12V
- ◆ High Temperature soldering: 260°C/40 seconds at terminals
- ◆ Typical maximum temperature coefficient  $\Delta V_{BR} = 0.1\% \times V_{BR}@25^\circ\text{C} \times \Delta T$
- ◆ Plastic package has Underwriters Laboratory Flammability 94V-0
- ◆ Matte tin lead-free Plated
- ◆ Halogen free and RoHS compliant
- ◆ Typical failure mode is short from over-specified voltage or current
- ◆ Whisker test is conducted based on JEDEC JESD201A per its table 4a and 4c
- ◆ IEC-61000-4-2 ESD 15kV(Air), 8kV (Contact)
- ◆ ESD protection of data lines in accordance with IEC 61000-4-2 (IEC801-2)
- ◆ EFT protection of data lines in accordance with IEC 61000-4-4 (IEC801-4)

## Functional Diagram

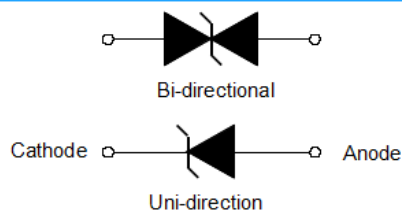


Figure 1 - Peak Pulse Power Rating Curve

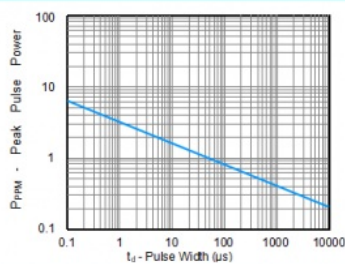


Figure 2 - Pulse Derating Curve

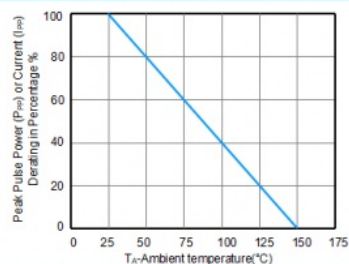


Figure 3 - Pulse Waveform

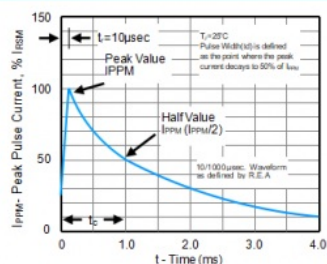


Figure 4 - Typical Junction Capacitance

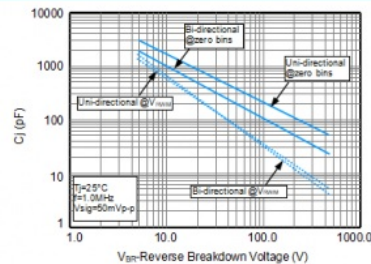


Figure 5 - Steady State Power Derating Curve

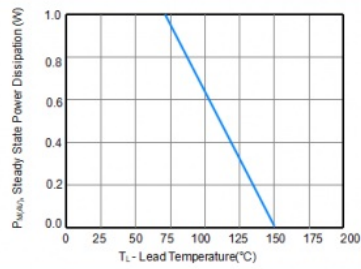
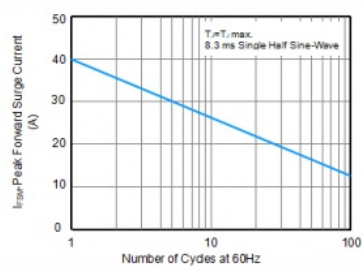
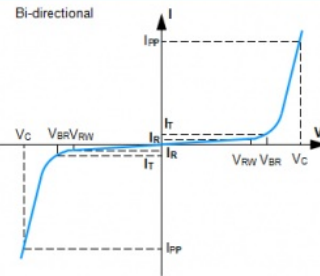
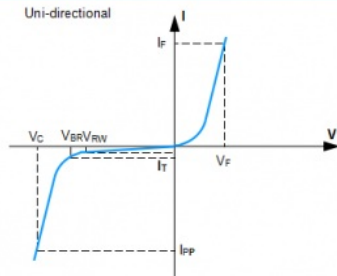


Figure 6 - Maximum Non-Repetitive Surge Current



## I-V Curve Characteristics



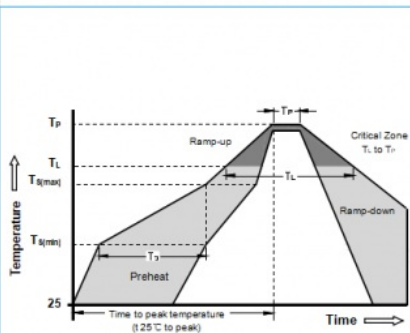
## Physical Specifications

|          |                                                              |
|----------|--------------------------------------------------------------|
| Weight   | 0.002 ounce, 0.061 gram                                      |
| Case     | JEDEC DO-214AC Molded Plastic over glass passivated junction |
| Polarity | Color band denotes cathode except Bipolar                    |
| Terminal | Matte Tin-plated leads, Solderable per JESD22-B102D          |

## Environmental Specifications

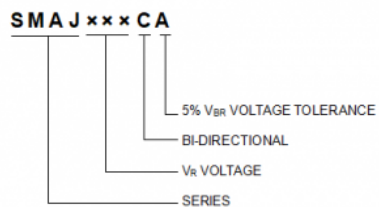
|                    |             |
|--------------------|-------------|
| Temperature Cycle  | JESD22-A104 |
| Pressure Cooker    | JESD22-A102 |
| High Temp. Storage | JESD22-A103 |
| HTRB               | JESD22-A108 |
| Thermal Shock      | JESD22-A106 |

## Soldering Parameters

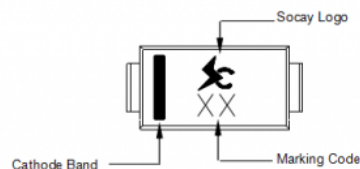


| Reflow Condition                                     |                                    | Lead-free assembly |
|------------------------------------------------------|------------------------------------|--------------------|
| Pre Heat                                             | -Temperature Min ( $T_{s(min)}$ )  | 150°C              |
|                                                      | -Temperature Max ( $T_{s(max)}$ )  | 200°C              |
|                                                      | -Time (min to max) ( $T_s$ )       | 60 - 180 Seconds   |
| Average ramp up rate (Liquidus Temp $T_L$ ) to peak  |                                    | 3°C/second max     |
| $T_{s(max)}$ to $T_L$ - Ramp-up Rate                 |                                    | 3°C/second max     |
| Reflow                                               | - Temperature ( $T_L$ ) (Liquidus) | 217°C              |
|                                                      | - Time (min to max) ( $T_L$ )      | 60 - 150 Seconds   |
| Peak Temperature ( $T_P$ )                           |                                    | 260 ±0/-5°C        |
| Time within 5°C of actual peak Temperature ( $t_p$ ) |                                    | 20 - 40 Seconds    |
| Ramp-down Rate                                       |                                    | 6°C/second max     |
| Time 25°C to peak Temperature ( $T_P$ )              |                                    | 8 minutes Max      |
| Do not exceed                                        |                                    | 280°C              |

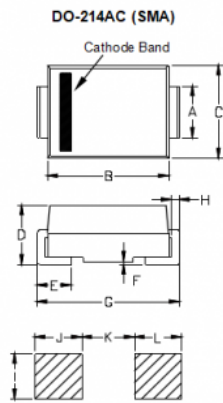
## Part Numbering



## Part Marking



## Dimensions

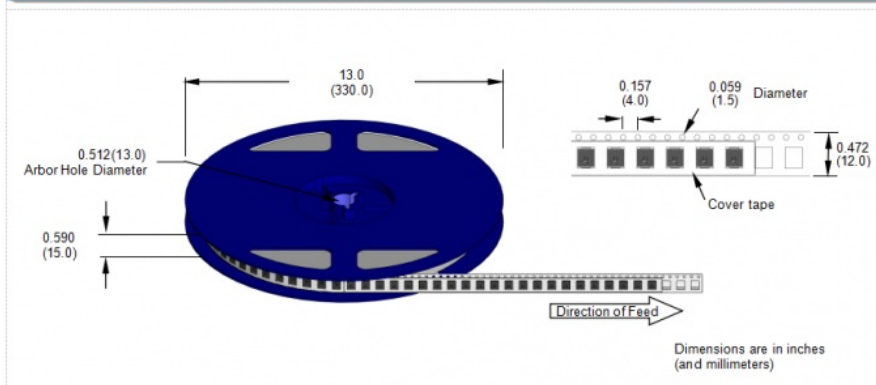


| Dimensions | Inches |       | Millimeters |       |
|------------|--------|-------|-------------|-------|
|            | Min    | Max   | Min         | Max   |
| A          | 0.049  | 0.065 | 1.25        | 1.65  |
| B          | 0.156  | 0.183 | 3.95        | 4.65  |
| C          | 0.093  | 0.112 | 2.35        | 2.85  |
| D          | 0.078  | 0.095 | 1.98        | 2.41  |
| E          | 0.030  | 0.060 | 0.76        | 1.52  |
| F          | -      | 0.008 | -           | 0.203 |
| G          | 0.185  | 0.209 | 4.70        | 5.30  |
| H          | 0.006  | 0.012 | 0.15        | 0.31  |
| I          | 0.067  | -     | 1.70        | -     |
| J          | 0.082  | -     | 2.10        | -     |
| K          | -      | 0.090 | -           | 2.30  |
| L          | 0.082  | -     | 2.10        | -     |

## Packaging

| Part Number | Component Package | Reel (pcs) | Per Carton (pcs) | Packaging Option          | Reel Diameters (mm) |
|-------------|-------------------|------------|------------------|---------------------------|---------------------|
| SMA.JXXXXX  | DO-214AC (SMA)    | 5000       | 80000            | Tape & Reel -15mm/13*tape | 330.0               |

## Tape and Reel Specifications



We are manufacturer and supplier of NTC ,DIODES ect passive components more than 20 years from China .if you have any request please contact us freely .

Also, Please email me for quotation if you have needs for our electronic components below.

|                                |                             |                      |                  |
|--------------------------------|-----------------------------|----------------------|------------------|
| Gas Discharge Tube             | PTC Resettable Fuse         | NTC Thermistor       | Zener Diodes     |
| TVS Diodes                     | VARISTOR                    | Rectifier diodes     | Switching Diodes |
| TVS Arrays<br>(ESD Suppressor) | Thyristor Surge Suppressors | Schottky diodes..... |                  |

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