



## SMD 1210 Type Multilayer Chip Varistor SV1210N470G0A Zinc Oxide Varistor 47V DC

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen Guangdong China
- Brand Name: SOCAY
- Certification: REACH RoHS ISO
- Model Number: SV1210N470G0A
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Component Name: Multilayer Chip Varistor
- Component Package: SMD1210
- Maximum DC Operating Voltage: 47V
- Vv (Min.): 56.4V
- Vv (Max.): 70.5V
- Maximum Peak Current Across The Varistor: 155V
- Maximum Peak Current: 250A
- Wmax: 0.8J
- Highlight: **SMD 1210 Multilayer Chip Varistor,  
Multilayer Chip Varistor 47V DC,  
Multilayer Zinc Oxide Varistor**



### More Images



## Product Description

### 1210 Type SMD Zinc Oxide Varistor SV1210N470G0A SOCAV Original Factory Supply

**SMD Zinc Oxide Varistor DATASHEET:** [SV1210N470G0A\\_v209.1.pdf](#)

#### Description:

The SMD Zinc Oxide Varistor SV1210N470G0A is based on Multilayer fabrication technology. These components are designed to suppress a variety of transient events, including those specified in IEC 61000-4-2 or other standards used for Electromagnetic Compliance (EMC). The SV1210N470G0A is typically applied to protect integrated circuits and other components at the circuit board level. It can operate over a wider temperature range than zener diodes.

#### SMD Zinc Oxide Varistor Electrical Characteristics (25±5):

| Symbol           | Minimum | Typical | Maximum | Units |
|------------------|---------|---------|---------|-------|
| VRMS             | —       | —       | 37      | V     |
| VDC              | —       | —       | 47      | V     |
| VV               | 56.4    | —       | 70.5    | V     |
| VC               | —       | —       | 155     | V     |
| I <sub>max</sub> | —       | —       | 250     | A     |
| W <sub>max</sub> | —       | —       | 0.8     | J     |

*VRMS* - SMD Zinc Oxide Varistor Maximum AC operating voltage the varistor can maintain and not exceed 10μA leakage current.

*VDC* - Maximum DC operating voltage the varistor can maintain and not exceed 10μA leakage current.

*VV* - Voltage across the device measure at 1mA DC current.

*Equivalent to VB* "breakdown voltage".

*VC* - Maximum peak current across the varistor with 8/20μs waveform and 5A pulse current.

*I<sub>max</sub>* - Maximum peak current which may be applied with 8/20μs waveform without device failure.

*W<sub>max</sub>* - Maximum energy which may be dissipated with the 10/1000μs waveform without device failure.

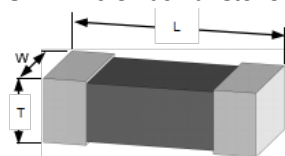
#### SMD Zinc Oxide Varistor Features:

Rectangle, sizes serialization for hybrid integrated circuit or printed circuit surface mount components  
There are many side electrode lead-out material, particularly suitable for surface mount technology for solderability and resistance to soldering heat of the stringent requirements  
Fast response (<1ns)  
Low leakage current, low clamping voltage  
Suitable for reflow, wave soldering and hot air hand soldering

#### SMD Zinc Oxide Varistor Applications:

Application for Mother Board, Notebook, Cellular Phone, PDA, handheld device, DSC, DV, Scanner, and Set- Top Box...etc.  
Suitable for Push-Button, Power Line and Low Frequency single line over-voltage protect.

#### SMD Zinc Oxide Varistor Construction & Dimensions:

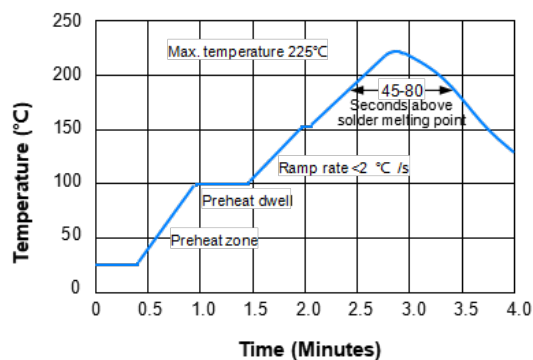


| Size EIA<br>(EIAJ) | Length (L)  |             | Width (W)   |             | Thickness (T) |             |
|--------------------|-------------|-------------|-------------|-------------|---------------|-------------|
|                    | Inches      | Millimeters | Inches      | Millimeters | Inches        | Millimeters |
| 1210<br>(3225)     | 0.126±0.012 | 3.20±0.30   | 0.098±0.012 | 2.50±0.30   | 0.098 Max     | 2.50 Max    |

#### General Technical Data:

|                         |                 |
|-------------------------|-----------------|
| Operating Temperature   | -55~125         |
| Storage Temperature     | -55~150         |
| Response Time           | <1 ns           |
| Solderability           | 245±5 , 3±1sec  |
| Solder Leach Resistance | 260±5 , 10±1sec |

#### Soldering Recommendations:



#### Preheat

The temperature rising speed is suggested to be 2~4 °C /s  
Appropriate preheat time will be from 60 to 120 seconds.

#### Heating

Careful about sudden rise in temperature as it may worsen the solder ability.  
Set the peak temperature in the range from 215 °C to 225 °C.

#### Cooling

Careful about slow cooling as it may cause the position shift of component.

#### Quantity of Products in The Taping Package:

|                                        |                |
|----------------------------------------|----------------|
| SIZE EIA (EIAJ)                        | 1210<br>(3225) |
| Standard Packing Quantity (PCS / reel) | 3,000          |



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