



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 _{max}	—	—	250	A
W _{max}	—	—	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_{max} - Maximum peak current which may be applied with 8/20μs waveform without device failure.

W_{max} - Maximum energy which may be dissipated with the 10/1000μs waveform without device failure.

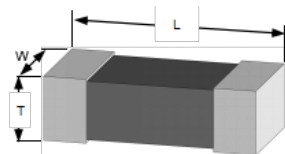
SMD Zinc Oxide Varistor Features:

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:

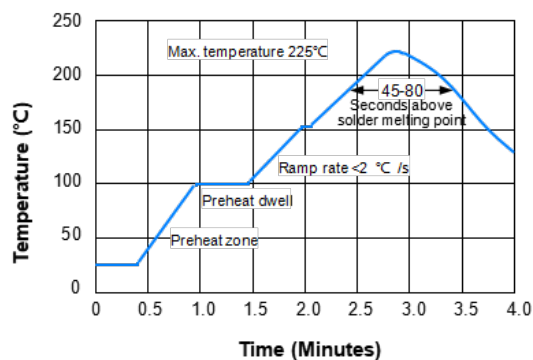


Size EIA (EIAJ)	Length (L)		Width (W)		Thickness (T)	
	Inches	Millimeters	Inches	Millimeters	Inches	Millimeters
1210 (3225)	0.126±0.012	3.20±0.30	0.098±0.012	2.50±0.30	0.098 Max	2.50 Max

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 (3225)
Standard Packing Quantity (PCS / reel)	3,000



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