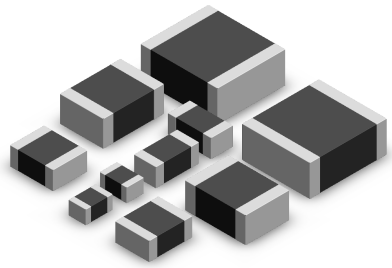
Surface Mount Multilayer Varistor

SV3220H471G0A

Description

The SV3220H471G0A 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 SV3220H471G0A 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.



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

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.

General Technical Data

Operating Temperature	-55℃ ~ +125℃
Storage Temperature	+5℃ ~ +40℃
Solderability	235±5℃, 2±0.5sec
Storage Relative Humidity	20-70%RH

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Electrical Characteristics (25±5℃)

Symbol	Minimum	Typical	Maximum	Units
V_{RMS}	—	—	300	V
V_{DC}	—	—	385	V
V_V	423	—	517	V
V_C	—	—	775	V
I_{max}	—	—	1250	A
W_{max}	—	—	10	J

V_{RMS} - Maximum AC operating voltage the varistor can maintain and not exceed 30μA leakage current.

V_{DC} - Maximum DC operating voltage the varistor can maintain and not exceed 30μA leakage current.

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

Equivalent to V_B “breakdown voltage”.

V_C - Maximum peak current across the varistor with 8/20μs waveform and 10A 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.

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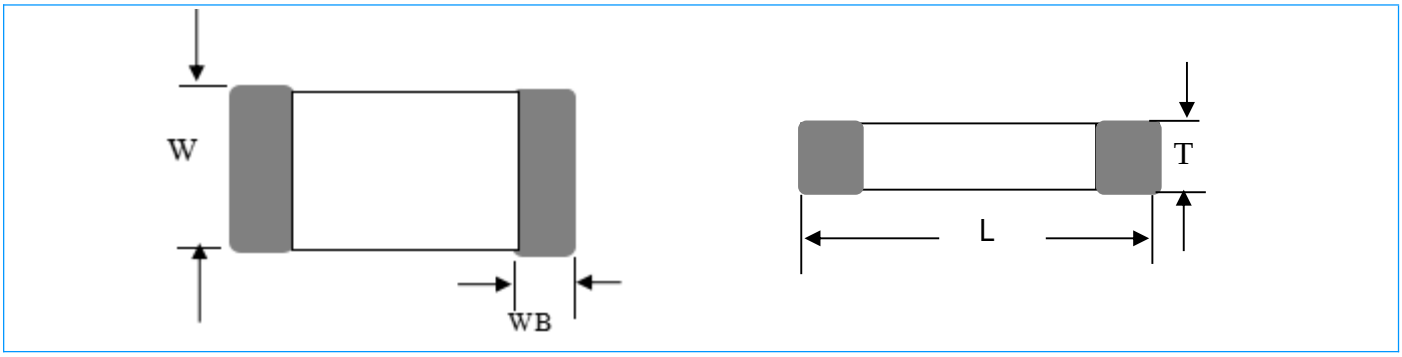
Dimensions



Size EIA (EIAJ)	Dimensions (mm)			
	Length (L)	Width (W)	Thickness (T_{max})	(WB)
3220 (8250)	8.20±0.50	5.08±0.50	3.8	0.60±0.25

Packaging Information

Quantity of products in the taping package

SIZE EIA (EIAJ)	3220 (8250)
Standard Packing Quantity (PCS / reel)	500