



## SV0402E5R5G1B Multilayer Chip Varistor SMD 0402 Package Max VDC 5.5V

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen Guangdong China
- Brand Name: SOCAY
- Certification: REACH RoHS ISO
- Model Number: SV0402E5R5G1B
- Minimum Order Quantity: 10000PCS
- Price: Negotiable
- Packaging Details: tape reel,bulk
- Delivery Time: 1-3weeks



### Product Specification

- Product Name: Multilayer Chip Varistor
- Package Type: SMD0402
- Vdc (Max.): 5.5V
- Vv (Min.): 7.6V
- Vv (Max.): 12V
- Vc (Max.): 25V
- Imax: 1A
- Cp (Typ.): 5pF
- Highlight: **SMD 0402 Multilayer Chip Varistor, Multilayer Chip Varistor 5.5V, SMD Varistor 5.5V**



### More Images



## Product Description

### SOCAY Multilayer Chip Varistor SMD0402 Package SV0402E5R5G1B Max VDC 5.5V

**Multilayer Chip Varistor DATASHEET:** [SV0402E5R5G1B\\_v89.1.pdf](#)

#### Description:

The Multilayer Chip Varistor SV0402E5R5G1B 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 SV0402E5R5G1B 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.

#### Electrical Characteristics (25±5):

Symbol	Minimum	Typical	Maximum	Units
VDC	—	—	5.5	V
VV	7.6	—	12	V
VC	—	—	25	V
CP	—	5	—	pF

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

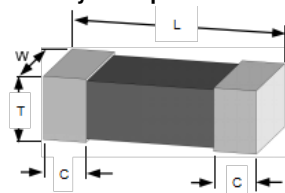
VV – Voltage across the device measure at 1mA DC current.

Equivalent to VB “breakdown voltage”

VC – Maximum peak current across the varistor with 8/20μs waveform and 1A pulse current.

CP – Device capacitance measured with zero volt bias 1Vrms at 1MHz. The pF is ±30%.

#### Multilayer Chip Varistor Construction & Dimensions:



Size EIA (EIAJ)	0402 (1005)	
Symbol	Inches	Millimeters
L	0.038±0.005	0.96±0.12
W	0.019±0.003	0.48±0.07
T	0.020±0.004	0.50±0.10
C	0.010±0.006	0.25±0.15

#### General Technical Data:

Operating Temperature		-40 ~ +85°C
Storage Temperature		-40 ~ +85°C
Response Time		<1 ns
Solderability		245±5°C, 3±1sec
Solder leach resistance		260±5°C, 10±1sec
Taping Package Storage Condition	Storage Temperature	5 ~ 40°C
	Relative Humidity	To 65%
	Storage Time	12 Months max

#### Environmental Performance:

Item	Specifications	Test Condition
Bias Humidity	$\Delta V_V / V_V \leq \pm 10 \%$	90%RH, 40°C, Working Voltage, 1000 hrs
Thermal Shock	$\Delta V_V / V_V \leq \pm 10 \%$	-40°C to 85°C, 30 min. cycle, 5 cycles
Full Load Voltage	$\Delta V_V / V_V \leq \pm 10 \%$	Working Voltage, 85°C, 1000 hrs

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

SIZE EIA (EIAJ)	0402 (1005)
Standard Packing Quantity (PCS / reel)	10,000



SOCAY Electronics Co.,Ltd was established in 1998, with more than 600 employees and a production area of 40,000 square meters. Over the years,SOCAY has been committed to becoming the most professional one-stop electronics omponents parts supplier.

**SOCAY's main products include a full range of Ceramic Gas Discharge Tubes (GDT)** Transient Suppression Diodes (TVS Diodes), ESD Suppressor, Thyristor Surge Suppressors (TSS), Spark Gap Protectors (SPG), Varistors (MOV), Chip Varistors (MLV), PTC Resettable Fuse, Negative Temperature Coefficient thermistors (NTC Thermistors), Chip Bead, Schottky Diodes , Zener Diode, etc. From circuit design to product testing (and provide test reports), we will provide you with one-stop services in the field of circuit protection. With excellent quality and service, SOCAY has won extensive praise from customers and respect from the industry.



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