

◆ Features

1. Lead free type.
2. Compact size for 0402
3. Insulator over coat keeps excellent low and stable leakage current.
4. Quick response time(<1ns).
5. Low Clamping Voltage.
6. Meet IEC 61000-4-2 standard.
 - Contact discharge mode: typical $\pm 8\text{kV}$, max $\pm 15\text{kV}$
 - Air discharge mode: typical $\pm 15\text{kV}$, max $\pm 25\text{kV}$



◆ Applications

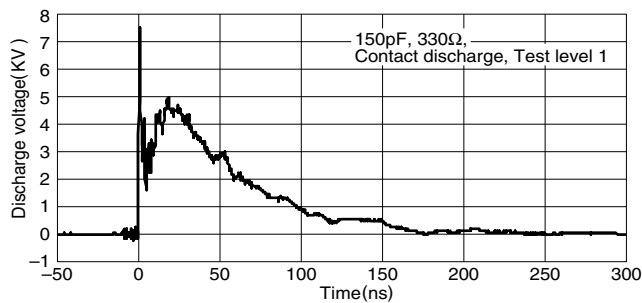
Application for Mother Board, Notebook, cellular Phone, PDA, handheld device, DSC, DV, Scanner, and Set-Top Box etc.

◆ Specifications

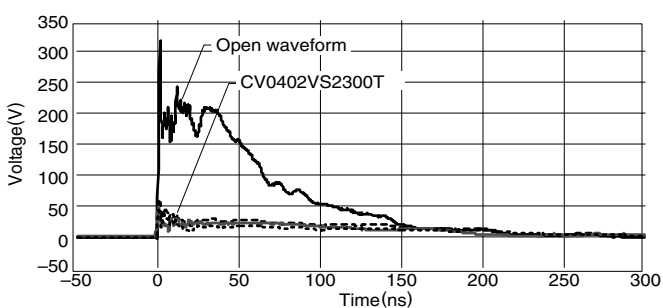
Part Number	Rated Voltage V_{DC} (V)	$V_{BR,min}$ (1mA) V	$V_{Clamp,typ}$ (@Ipp) V	C_{typ} (1MHz,0V) pF	Leakage Current (I _L) μ A max	Package quantity
CV0402VS2300T	9.0	13.0	30.0	30.0	20.0	10,000

Electrostatic absorption characteristic

Discharge voltage waveform

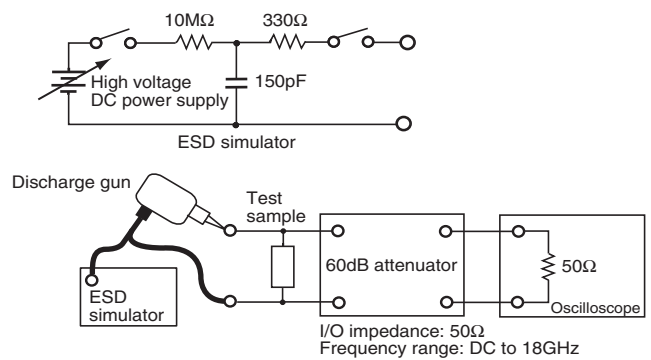


Discharge voltage waveform



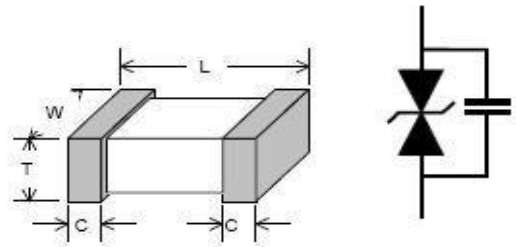
Current wave parameter [IEC61000-4-2]

level	ESD Charging voltage (kV)	Discharge 1 peak current (A)	Rise time (ns)
1	2	7.5	0.7 to 1.0
2	4	15	0.7 to 1.0
3	6	22.5	0.7 to 1.0
4	8	30	0.7 to 1.0



◆ Dimensions Unit:mm

Size EIA(EIAJ)	(0402)
L	1.00±0.15
W	0.50±0.10
T	0.50±0.10
C	0.25±0.15



◆ General Technical Data

Operating Temperature	-55 ~ +125℃
Storage Temperature	-55~ +125℃
Response Time	<1 ns
Solderability	245±5℃,3±1sec.

◆ Environmental Performance

Item	Specifications	Test Condition
Bias Humidity	$\Delta V_V / V_V \leq \pm 10\%$	90%RH,40℃,Working Voltage,1000hrs
Thermal Shock		-55℃ to 125℃,30min.cycle,5 cycles
Full Load Voltage		Working Voltage ,125℃,1000hrs
Solder Leach Resistance	(1) $\Delta V_V / V_V \leq \pm 10\%$ (2) $I_L \leq 1nA$ at Working Voltage (3)Solder Wetting Area $\geq 95\%$	260±5℃,10 ±1sec.

◆ Package

Size EIA(EIAJ)	0402
Standard Packing Quantity(pcs / reel)	10,000