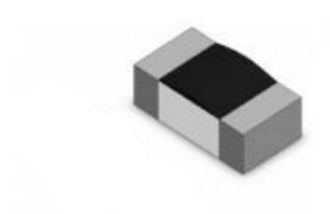


**◆ Features**

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  $\pm 15\text{kv}$
  - Air discharge mode:typical  $\pm 20\text{kv}$

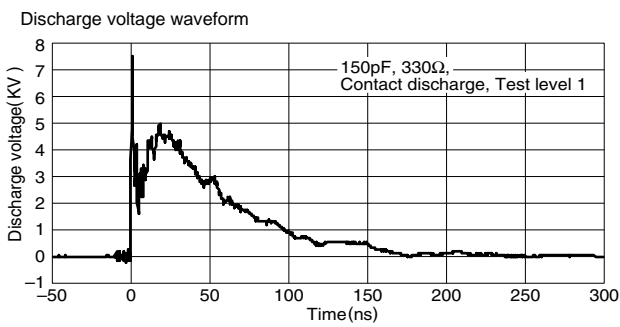
**◆ Applications**

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

### ◆ Specifications

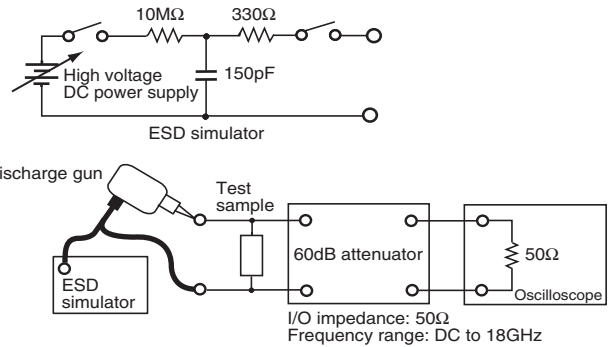
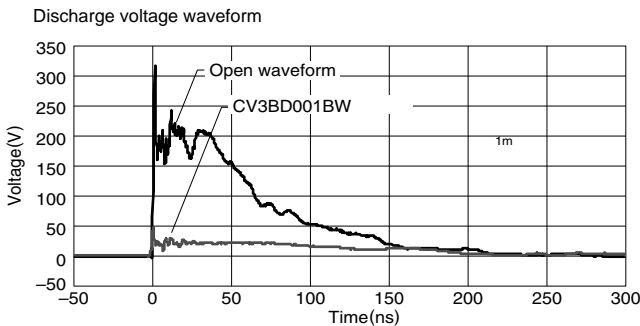
Part Number	Rated Voltage $V_{DC}$ (V)	Trigger voltage ESD (V)	$V_{Clamp,typ}$ ESD (V)	$C_j$ (1MHz,0V) pF	Leakage Current (I <sub>L</sub> ) $\mu$ A	Package quantity
CV3BD001BW	24.0	310.0	50.0	0.05-0.2	1.0	10,000

### Electrostatic absorption characteristic



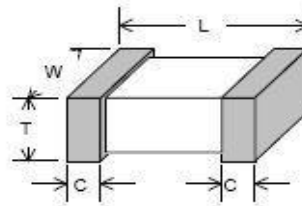
### Current wave parameter [IEC61000-4-2]

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

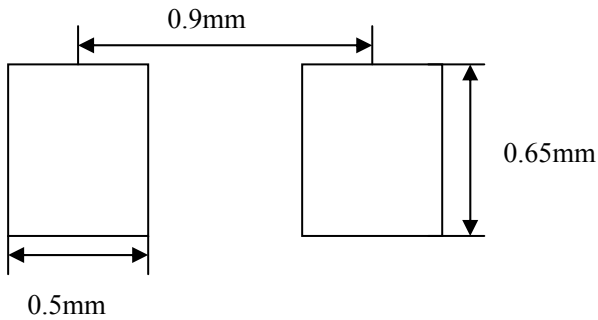


### ◆ Dimensions Unit:mm

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



## ◆ PAD Dimension



Solder thickness 0.15 to 0.2mm

## ◆ General Technical Data

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

## ◆ Environmental Performance

Item	Specifications	Test Condition
Bias Humidity	$\Delta V_v / V_v \leq \pm 10\%$	90%RH, 40°C, Working Voltage, 1000hrs
Thermal Shock		-55°C to 125°C, 30min.cycle, 5 cycles
Full Load Voltage		Working Voltage, 125°C, 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°C, 10 ±1sec.

## ◆ Package

Size EIA(EIAJ)	1005
Standard Packing Quantity(pcs / reel)	10,000