

# SDV

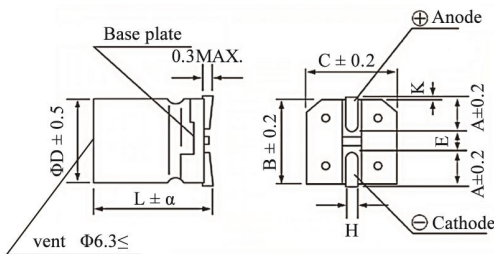
- ◆ 70°C 1000 Hours
- ◆ Upgrade from SDA series 2.7V- SMD type
- ◆ High Energy, High Power, Long Life
- ◆ 2 Times Pass 250°C(5s) Reflow Soldering Process
- ◆ RoHS, REACH Compliant



## Specifications

Items	Characteristics	
Temperature Range	-25°C ~ +70°C	
Rated Voltage Range	2.7V.DC	
Capacitance Range	-10% ~ +30% (20°C)	
Temperature Characteristics	Capacitance change	$ \Delta c/c(+20^\circ\text{C})  \leq 30\%$
	ESR	400% or less than the initial value (-25°C)
Endurance	The specification should be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 70°C.	
	Capacitance change	Within ±30% of initial capacitance value
	ESR	300% or less than the initial specified value
Shelf Life	The specification should be met when the capacitors are restored to 20°C after storing under no load for 1000 hours at 70°C.	
	Capacitance change	Within ±30% of initial capacitance value
	ESR	300% or less than the initial specified value
Humidity	The specification should be met when the capacitor at 20°C under the condition of 90%R.H with no load for 500 hours at 25°C.	
	Capacitance change	Within ±30% of initial capacitance value
	ESR	300% or less than the initial specified value

## Standard Size ( Size:mm )



ΦD	L	B	C	A	H	E	K	α
5.0	10	5.3	5.3	2.1	0.75±0.10	1.3	0.7MAX	±0.5
6.3	12	6.6	6.6	2.6	0.75±0.10	1.8	0.7MAX	±0.5
8.0	12.5	8.3	8.3	3.4	0.9±0.20	3.1	0.7MAX	±0.5
10	13	10.3	10.3	3.5	0.9±0.20	4.6	0.7MAX	±0.5
10	21	10.3	10.3	3.5	0.9±0.20	4.6	0.7MAX	±0.5
12.5	13.5	13.0	13.0	4.7	0.9±0.30	4.4	0.7MAX	±1.0

## Product Size

Series	Rated Voltage (Vdc)	Capacitance Range (F)	Size ΦD×L (mm)	ESR (mΩ/20°C, 1KHz)	Part Number
SDV	2.7	0.5	5×10	1500	SDV2R7V5040510
	2.7	1	6.3×12	1000	SDV2R7V1050612
	2.7	2	8×12.5	800	SDV2R7V2050813
	2.7	3.3	10×13	500	SDV2R7V3351013
	2.7	5	12.5×13.5	300	SDV2R7V5051314
	2.7	7	10×21	250	SDV2R7V7051021

## Applications

- ◆ Energy Harvest: Intelligent Instrument, Security Devices, Telecommunication, Rice Cooker, Home Appliances
- ◆ Power Back Up: IoT Data Terminal, Driving Recorder, In Car Devices, Vacuum Switch, Fire-Fighting Lamp, 3D Printer, Digital Camera
- ◆ Large Current Operating Work: Smart Grid Control, Wireless Transmission