

SVA series

SVA

- Low ESR.
- High Voltage, Long Life.
- 105°C, 5,000 to 10,000hrs.
- RoHS Compliant.
- For high reliability applications. (Automotive equipment, Base station equipment, etc.)



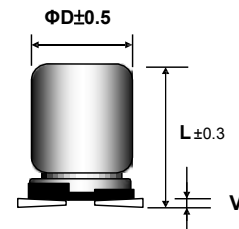
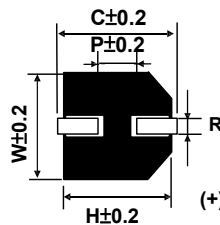
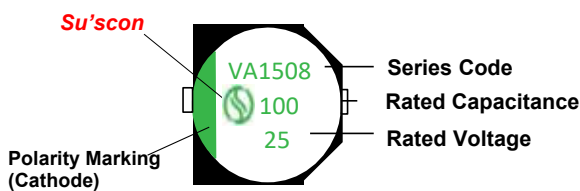
SPECIFICATIONS

Items	Conditions	Characteristics	
Category Temperature Range	—	-55 to +105°C	
Rated Voltage Range	—	16 ~ 125V	
Capacitance Tolerance	at 20°C, 120HZ	±20%(M)	
Surge Voltage	at 15~35°C	Rated voltage × 1.15V	
Leakage Current	at 20°C after 2 minutes	I ≤ 0.01CV or 3(μA) Whichever is greater measured, after 2 minutes application of rated working voltage at +20°C. Please see the attached characteristics list	
Dissipation Factor (tan δ)	at 20°C, 120Hz	Please see the attached characteristics list	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5000 to 10000 hours at 105°C, Φ6.3=5000hrs, D≥Φ8=10000hrs	Appearance	No significant damage.
		Capacitance change	±30% of the initial value.
		DF(tanδ)	≤200% of the initial specified value.
		ESR	≤200% of the initial specified value.
		Leakage current	≤The initial specified value.
Damp Heat (Steady State)	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to subjecting them to store at 60°C, 90 to 95% RH for 1,000 hours, without DC applied.	Appearance	No significant damage.
		Capacitance change	±30% of the initial value.
		DF(tanδ)	≤200% of the initial specified value.
		ESR	≤200% of the initial specified value.
		Leakage current	≤The initial specified value.
Surge Voltage	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30 seconds	Appearance	No significant damage.
		Capacitance change	±30% of the initial value.
		DF(tanδ)	≤200% of the initial specified value.
		ESR	≤200% of the initial specified value.
		Leakage current	≤The initial specified value.
Standards	IEC 60384-4 (JIS C 5101-4)		

※ Note: If any doubt arises, measure the leakage current after following voltage treatment.

Voltage treatment : DC rated voltage are applied to the capacitors for 120 minutes at 105°C.

MARKING AND DIMENSIONS



(Unit:mm)

Size	ΦD	L	W	H	C	R	P	V max
6.3×6.0	6.3	7.7	6.6	6.6	7.3	0.5~0.8	2.1	0.3
6.3×7.7	6.3	7.7	6.6	6.6	7.3	0.5~0.8	2.1	0.3
8×10.5	8.0	10.5	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10×10.5	10.0	10.5	10.3	10.3	11.0	0.7~1.3	4.5	0.3
10×12.5	10.0	12.5	10.3	10.3	11.0	0.7~1.3	4.5	0.3

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STANDARD RATINGS

Rated voltage (S.V.)	Cap (μF)	Size Code DxL	Leakage current (μA) max.	ESR (mΩ) max. 100k to 300kHz / 20°C	Rated Ripple Current (mA rms) 100kHz / 105°C	D.F. (tanδ) max. 120Hz / 20°C
16 (18.4)	82	6.3x6.0	13	55	1380	0.16
	120	6.3x7.7	19	40	1500	0.16
	270	8x10.5	43	26	2000	0.16
	470	10x10.5	75	21	2600	0.16
	560	10x12.5	90	15	3000	0.16
25 (28.8)	47	6.3x6.0	12	60	1270	0.16
	68	6.3x7.7	17	45	1400	0.16
	150	8x10.5	38	27	1900	0.16
	270	10x10.5	68	22	2500	0.16
	330	10x12.5	83	16	2900	0.16
35 (40.3)	27	6.3x6.0	9	100	1080	0.16
	47	6.3x7.7	16	60	1300	0.16
	100	8x10.5	35	30	1800	0.16
	150	10x10.5	53	23	2400	0.16
	220	10x12.5	77	17	2800	0.16
40 (46.0)	18	6.3x6.0	7	110	1030	0.16
	27	6.3x7.7	11	70	1200	0.16
	56	8x10.5	22	32	1700	0.16
	100	10x10.5	40	24	2400	0.16
	120	10x12.5	48	18	2700	0.16
50 (57.5)	10	6.3x6.0	5	120	980	0.16
	15	6.3x7.7	8	80	1200	0.16
	33	8x10.5	17	35	1600	0.16
	47	8x10.5	17	35	1600	0.16
	56	10x10.5	28	25	2300	0.16
	82	10x12.5	41	19	2600	0.16
63 (72.5)	6.8	6.3x6.0	4	150	960	0.16
	10	6.3x7.7	6	100	1000	0.16
	22	8x10.5	14	40	1500	0.16
	33	8x10.5	21	40	1500	0.16
		10x10.5	21	30	2100	0.16
	47	10x10.5	30	30	2100	0.16
	56	10x12.5	35	22	2400	0.16
80 (92.0)	12	10x10.5	10	70	1600	0.16
	15	10x10.5	12	70	1600	0.16
	18	10x12.5	14	50	1800	0.16
100 (115.0)	10	10x10.5	10	80	1400	0.16
	12	10x10.5	12	80	1400	0.16
	15	10x12.5	15	60	1600	0.16
125 (143.8)	10	10x10.5	13	90	1200	0.16

Frequency Coefficient of Permissible Ripple Current

Capacitance (μF)	Frequency (Hz)			
	100 ≤ F < 1K	1K ≤ F < 10K	10K ≤ F < 100K	100K ≤ F
4.7 < C ≤ 33	0.05	0.32	0.67	1.00
33 < C	0.10	0.35	0.70	1.00