Su'scon

# SVT series

- Low ESR.High Temperature
- · High Voltage, Long Life.
- · 135°C, ,1,000 to 2,000hrs..
- RoHS compliant
- For automotive moudles and other high temperature applications

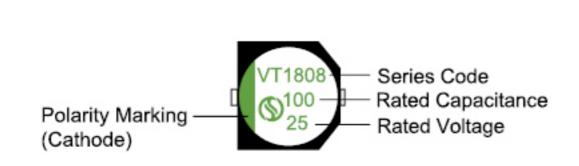


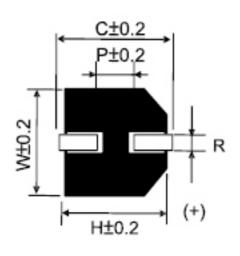
#### **SPECIFICATIONS**

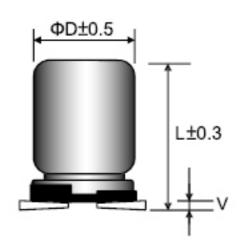
Items	Conditions	Characteristics			
Category Temperature Range	_	-55 to +135°C			
Rated Voltage Range	_	25 ~ 63V			
Capacitance Tolerance	at 20°C,120Hz	±20%(M)			
Surge Voltage	at 15 ~ 35°C	Rated voltage ×1.15V			
		I ≦ 0.01CV or 3(μA) Whichever is greater			
Leakage Current	at 20°C after 2 minutes	measured,after 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 1,000 to 2,000 hours at 135°C. Φ6.3=1,000hrs,D≧Φ8=2,000hrs.	Appearance NO significa	nt damage.		
		Capacitance change ≦ ±30% of the initial value.			
		DF (tan δ) ≦ 200% of th	ne initial specified value.		
		ESR ≦ 200% of th	ne initial specified value.		
		Leakage current ≦ The initial s	specified value.		
	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 significa	nt damage.		
		Capacitance change ≦ ±30% of th	ne initial value.		
Damp Heag (Steady State)		DF (tan δ) ≦ 200% of th	ne initial specified value.		
		ESR ≦ 200% of th	ne initial specified value.		
		Leakage current ≦ The initial s	specified value.		
	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 aprotective resistor (R = 1	Appearance NO significa	nt damage.		
		Capacitance change ≦±30% of th	ne initial value.		
Surge Voltage		DF (tan δ) ≦ 200% of th	ne initial specified value.		
		ESR ≦ 200% of th	ne initial specified value.		
	kΩ) and discharge for 5 minutes 30 seconds.	Leakage current ≦ The initial s	specified value.		

X Note: If any doubt arises, measure the leakage current after following voltage treatment.
Voltage treatmen: DC rated voltage are applied to the capacitors for 120 minutes at 135°C.

#### MARKING AND DIMENSIONS







(Unit:mm)

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Size	φD	L	W	Н	С	R	Р	V max
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





### SVT SERIES STANDARD CHARACTERISITICS LIST

Rated voltage (S.V.)	Cap (µF)	Size Code DxL	Leakage current (μΑ) max.	ESR (mΩ) max. 100k to 300kHz / 20°C	Rated Ripple Current (mA rms) 100kHz / 135°C	D.F. (tanδ) max. 120Hz / 20°C
25 (28.8)	68	6.3×7.7	17	45	750	0.16
	150	8x10.5	38	27	1,000	0.16
	270	10x10.5	68	22	1,200	0.16
	330	10x12.5	83	16	1,350	0.16
	47	6.3×7.7	16	60	730	0.16
35	100	8x10.5	35	30	1,000	0.16
(40.3)	150	10x10.5	53	23	1,100	0.16
	220	10x12.5	77	17	1,300	0.16
	27	6.3×7.7	11	70	700	0.16
40 (46)	56	8x10.5	22	32	950	0.16
	100	10x10.5	40	24	1,100	0.16
	120	10x12.5	48	18	1,300	0.16
50 (57.5)	15	6.3×7.7	8	80	650	0.16
	33	8x10.5	17	35	900	0.16
	56	10x10.5	28	25	1,100	0.16
	82	10x12.5	41	19	1,250	0.16
	10	6.3×7.7	6	100	550	0.16
63 (72.5)	22	8x10.5	14	40	850	0.16
	33	8x10.5	21	40	850	0.16
		10x10.5	21	30	1,000	0.16
	47	10x10.5	30	30	1,000	0.16
	56	10x12.5	35	22	1,100	0.16

## Frequency Coefficient of Permissible Ripple Current

Frequency (Hz) Capacitance (µF)	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