

# Aluminum Electrolytic Capacitors Surface Mount Type

SRBS Series

**MERITEK**

## FEATURE

- General Purpose Capacitor Series
- Applications: Automatic Mounting and Reflow Soldering, Industrial, Automobile, Meter
- Load life: 85°C



Diameter (mm)	Load Life (Hours)
4~6.3	2000

## SPECIFICATIONS

Item	Characteristic								
Operating Temperature	-40°C ~ 85°C								
Rated Working Voltage	4.0VDC ~ 50VDC								
Nominal Capacitance	0.1 μF ~ 220 μF, ±20% (at 20°C, 120HZ)								
Leakage Current	$I_L \leq 0.01CV$ or 3 μA whichever is greater after 2 minutes at 20°C I <sub>L</sub> : Leakage Current (μA) C: Nominal Capacitance (μF) V: Rated Voltage (V)								
Dissipation Factor at 20°C, 120Hz	Working Voltage (V)	4.0	6.3	10	16	25	35	50	
	Dissipation Factor	0.35	0.26	0.20	0.17	0.15	0.13	0.10	
Low Temperature Stability, Impedance Ratio at 120Hz	Working Voltage (V)	4.0	6.3	10	16	25	35	50	
	Z-25°C / Z+20°C	7	4	3	2	2	2	2	
	Z-40°C / Z+20°C	15	8	6	4	4	3	3	
Load Life	Capacitance change	≤ ±20% of initial value						Apply Working Voltage for Rated Load Life / Temperature Stabilized at +20°C.	
	Dissipation Factor	≤ 200% of initial value							
	Leakage Current	≤ Initial specified value							
Shelf Life	Capacitance Change	≤ ±20% of initial value						After storage condition without voltage applied for 1000 hours at Rated Temperature, Stabilizing for 1 to 2 hours.	
	Dissipation Factor	≤ 200% of initial value							
	Leakage Current	≤ Initial specified value							
Resistance to Soldering Heat	Capacitance Change	≤ ±10% of initial value						For other procedures than those specified, Soldering iron method: Temperature: 260±5°C. Application time of soldering iron: 10 sec	
	Dissipation Factor	≤ specified value							
	Leakage Current	≤ specified value							

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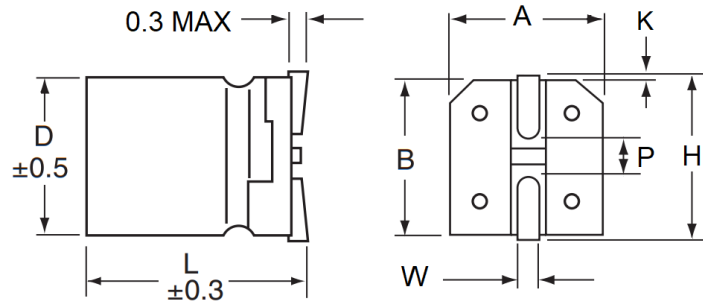
## STANDARD RATING

Rated Voltage (V <sub>DC</sub> )	Rated Capacitance		Tan δ (%)	Case Size DxL (mm)	Ripple Current (mA/rms)
	(μF)	Code			
4	22	220	0.35	4.0x5.3	19
	33	330	0.35	4.0x5.3	26
	47	470	0.35	4.0x5.3	34
	100	101	0.35	5.0x5.3	61
	220	221	0.35	6.3x5.3	82
6.3	22	220	0.26	4.0x5.3	29
	33	330	0.26	5.0x5.3	37
	47	470	0.26	5.0x5.3	46
	100	101	0.26	6.3x5.3	71
10	22	220	0.20	4.0x5.3	34
	33	330	0.20	5.0x5.3	43
	47	470	0.20	6.3x5.3	54
16	10	100	0.17	4.0x5.3	28
	22	220	0.17	5.0x5.3	39
	33	330	0.17	6.3x5.3	50
	47	470	0.17	6.3x5.3	70

Note: Ripple Current measured at 120Hz, 85°C

Rated Voltage (V <sub>DC</sub> )	Rated Capacitance		Tan δ (%)	Case Size DxL (mm)	Ripple Current (mA/rms)
	(μF)	Code			
25	4.7	4R7	0.15	4.0x5.3	22
	10	100	0.15	5.0x5.3	28
	22	220	0.15	6.3x5.3	55
	33	330	0.15	6.3x5.3	65
35	4.7	4R7	0.13	4.0x5.3	22
	10	100	0.13	5.0x5.3	30
	22	220	0.13	6.3x5.3	60
50	0.1	R10	0.10	4.0x5.3	1
	0.22	R22	0.10	4.0x5.3	2
	0.33	R33	0.10	4.0x5.3	3
	0.47	R47	0.10	4.0x5.3	5
	1.0	1R0	0.10	4.0x5.3	10
	2.2	2R2	0.10	4.0x5.3	16
	3.3	3R3	0.10	4.0x5.3	16
	4.7	4R7	0.10	5.0x5.3	23
	10	100	0.10	6.3x5.3	35

## DIMENSION



Unit: mm

D	L	A ±0.2	B Max	H Max	W	P ±0.2	K Max
4 (D)	5.3	4.3	4.7	5.2	0.5~0.8	1.0	0.5
5 (E)	5.3	5.3	5.6	6.1	0.5~0.8	1.5	0.5
6.3 (F)	5.3	6.6	6.9	7.4	0.5~0.8	2.0	0.5

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## PART NUMBERING SYSTEM

SRBS   1H   100M   F053  
(1)        (2)        (3)        (4)

No	Item	Code	Description	
(1)	Meritek Series	SRBS	Aluminum Electrolytic Capacitors, SMD type, 2000Hrs 85°C	
(2)	Rated Voltage	1H	50VDC	DC Voltage Code, 0G to 1H
(3)	Rated Capacitance	100M	10µF ±20% (M)	First two digits: significant, Third: Multiplier
(4)	Size Code	F053	6.3 x 5.3 mm	D x L (mm)

Voltage	4	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500
Code	0G	0J	1A	1C	1E	1V	1H	1J	2A	2C	2D	2E	2V	2G	2W	2H

Diameter	4	5	6.3	8	10	12.5	14.5	16	18	20	22	25
Code	D	E	F	H	J	K	U	L	M	N	P	Q

## LEGACY PART NUMBERING SYSTEM

SRBS   50V   100M   F053  
(1)        (2)        (3)        (4)

No	(1)	(2)	(3)	(4)
Item	Meritek Series	Rated Voltage	Rated Capacitance	Size Code

\*Specifications subject to change without notice.