

Surface Mount Type

SV Standard Low Profile Series



Features

- High voltage (35V, max)
- Standard Low profile (Height 1.9mm)
- Excellent Ripple Absorption (10200mA, max)
- RoHS & REACH Compliance, Halogen free

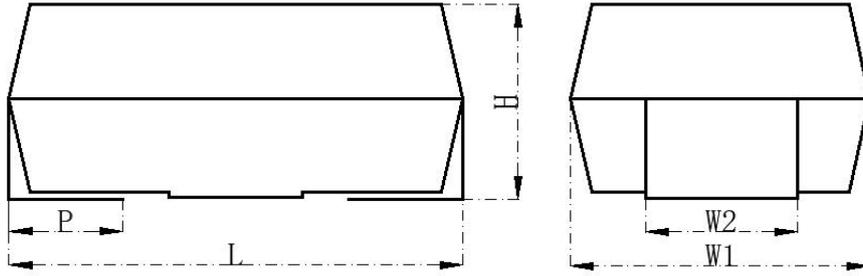
Main Applications

- Server
- 5G Base Station
- Block Chain
- Artificial Intelligence
- Notebook
- Charger
- SSD
- Drone
- BeiDou Satellite
- Internet of Things (IOT)
- Security Monitoring
- New Energy Vehicles

Specifications

series	SV	
Operating Temp. Range	-55°C~105°C	
Rated Voltage Range	2V~35V	
Rated Capacitance Range	5μF~680μF	
DC Leakage Current (LC)	2V~6.3V: ≤0.1CV, 10V~35V: ≤0.3CV (Rated Voltage, 2minutes)	
Capacitance Tolerance	K(-10%~+10%), M(-20%~+20%), Y(-35%~+10%) or customized	
Dissipation Factor (tgδ)	≤ 0.06 (Frequency : 120Hz, Temp. :20°C)	
Surge Voltage (V)	2V~16V:1.25*VR, 20V~25V:1.15*VR,35V:1.05*VR (15°C~35°C)	
Endurance	Temp.: 105 ±3°C	Appearance: No macroscopi damage
	Applied Voltage: Rated Voltage(DC)	Capacitance Change: -20%~+20% of initial value
	Test time: 2000h	Dissipation Factor (tgδ): ≤0.12
	Stabilizing time: 1~2h	Leakage Current: ≤specified value
Damp heat, Steady state	Temp.: 60 ±2°C	Appearance: No macroscopi damage
	Humidity: 90 ⁺² ₋₃ %RH	Capacitance Change: -20%~+60% of initial value (4V~35V), -20%~+70% of initial value (2V~2.5V)
	No load, Test time: 500h	Dissipation Factor (tgδ): ≤0.12
	Stabilizing time: 1~2h	Leakage Current: ≤300% of specified value

Product Size



Series	L (mm)±0.4	W1 (mm)±0.3	H (mm)±0.2	P (mm)±0.2	W2 (mm)±0.1
SV	7.3	4.3	1.9	1.3	2.4

Characteristics List

Product Part No.	Rated Voltage (V)	Capacitance (μF) *1	D.F. *2	ESR (mΩ) *3	R.C. (mA) *4	L.C. (μA) *5	
SV0D221MR015A0	2	220	0.06	15	5100	44	
SV0D271MR012A0		270	0.06	12	5600	54	
SV0D331MR015A0		330	0.06	15	5100	66	
SV0D331MR012A0		330	0.06	12	5600	66	
SV0D391MR015A0		390	0.06	15	5100	78	
SV0D471MR015A0		470	0.06	15	5100	94	
SV0D471MR006A0		470	0.06	6	7500	94	
SV0D471MR4R5A0		470	0.06	4.5	8500	94	
SV0D471MR003A0		470	0.06	3	10200	94	
SV0D561MR015A0		560	0.06	15	5100	112	
SV0D561MR4R5A0		560	0.06	4.5	8500	112	
SV0D561MR003A0		560	0.06	3	10200	112	
SV0D681MR4R5A0		680	0.06	4.5	8500	136	
SV0D681MR003A0		680	0.06	3	10200	136	
SV0E221MR015A0		2.5	220	0.06	15	5100	55
SV0E331MR015A0			330	0.06	15	5100	82.5
SV0E331MR012A0	330		0.06	12	5600	82.5	
SV0E331MR009A0	330		0.06	9	6300	82.5	
SV0E391MR015A0	390		0.06	15	5100	97.5	
SV0E471MR015A0	470		0.06	15	5100	117.5	
SV0E471MR009A0	470		0.06	9	6300	117.5	
SV0E471MR006A0	470		0.06	6	7500	117.5	
SV0E471MR4R5A0	470		0.06	4.5	8500	117.5	
SV0E471MR003A0	470		0.06	3	10200	117.5	
SV0E561MR4R5A0	560		0.06	4.5	8500	140	
SV0E561MR003A0	560		0.06	3	10200	140	
SV0E681MR4R5A0	680		0.06	4.5	8500	170	
SV0E681MR003A0	680		0.06	3	10200	170	
SV0G151MR015A0	4		150	0.06	15	5100	60
SV0G181MR015A0			180	0.06	15	5100	72
SV0G181MR012A0		180	0.06	12	5600	72	
SV0G221MR015A0		220	0.06	15	5100	88	
SV0G221MR012A0		220	0.06	12	5600	88	
SV0G271MR015A0		270	0.06	15	5100	108	
SV0G331MR015A0		330	0.06	15	5100	132	
SV0J470MR045A0		6.3	47	0.06	45	3000	29.6
SV0J101MR030A0	100		0.06	30	3500	63	
SV0J101MR015A0	100		0.06	15	3500	63	
SV0J121MR015A0	120		0.06	15	5100	75.6	
SV0J151MR018A0	150		0.06	18	4800	94.5	
SV0J151MR015A0	150		0.06	15	5100	94.5	
SV0J151MR012A0	150		0.06	12	5600	94.5	
SV0J181MR015A0	180		0.06	15	5100	113.4	
SV0J221MR015A0	220		0.06	15	5100	138.6	
SV0J331MR009A0	330		0.06	9	6300	207.9	

Characteristics List

Product Part No.	Rated Voltage (V)	Capacitance (μF) *1	D.F. *2	ESR ($\text{m}\Omega$) *3	R.C. (mA) *4	L.C. (μA) *5	
SV1A470MR040A0	10	47	0.06	40	3200	141	
SV1A680MR060A0		68	0.06	60	1400	204	
SV1A680MR040A0		68	0.06	40	3200	204	
SV1A101MR045A0		100	0.06	45	3000	300	
SV1A101MR040A0		100	0.06	40	3200	300	
SV1B680MR060A0	12.5	68	0.06	60	1400	255	
SV1B101MR045A0		100	0.06	45	3000	375	
SV1B151MR030A0		150	0.06	30	3500	562.5	
SV1C100MR080A0	16	10	0.06	80	1200	48	
SV1C150MR040A0		15	0.06	40	3200	72	
SV1C220MR060A0		22	0.06	60	1400	105.6	
SV1C220MR040A0		22	0.06	40	3200	105.6	
SV1C330MR045A0		33	0.06	45	3000	158.4	
SV1C330MR040A0		33	0.06	40	3200	158.4	
SV1C470MR045A0		47	0.06	45	3000	225.6	
SV1C470MR040A0		47	0.06	40	3200	225.6	
SV1C680MR040A0		68	0.06	40	3200	326.4	
SV1C101MR030A0		100	0.06	30	3500	480	
SV1C151MR030A0		150	0.06	30	3500	720	
SV1D220MR060A0		20	22	0.06	60	1400	132
SV1D220MR040A0			22	0.06	40	3200	132
SV1D330MR045A0	33		0.06	45	3000	198	
SV1D330MR040A0	33		0.06	40	3200	198	
SV1D470MR040A0	47		0.06	40	3200	282	
SV1D470MR030A0	47		0.06	30	3500	282	
SV1D560MR040A0	56		0.06	40	3200	336	
SV1D560MR030A0	56		0.06	30	3500	336	
SV1D680MR030A0	68		0.06	30	3500	408	
SV1E100MR080A0	25	10	0.06	80	1200	75	
SV1E150MR060A0		15	0.06	60	1400	112.5	
SV1E150MR040A0		15	0.06	40	3200	112.5	
SV1E220MR045A0		22	0.06	45	3000	165	
SV1E220MR040A0		22	0.06	40	3200	165	
SV1E330MR045A0		33	0.06	45	3000	247.5	
SV1E330MR040A0		33	0.06	40	3200	247.5	
SV1E470MR045A0		47	0.06	45	3000	352.5	
SV1E560MR045A0		56	0.06	45	3000	420	
SV1V050MR100A0	35	5	0.06	100	900	52.5	
SV1V100MR080A0		10	0.06	80	1200	105	

Note:

*1: 120Hz, +20 \pm 1 $^{\circ}$ C*2: 120Hz, +20 \pm 1 $^{\circ}$ C*3: 100KHz, +20 \pm 1 $^{\circ}$ C*4: 100KHz, +45 \pm 1 $^{\circ}$ C

*5: Rated Voltage, 2 minutes

Temperature Coefficient for Ripple Current

Products	T \leq 45 $^{\circ}$ C	45 $^{\circ}$ C < T \leq 85 $^{\circ}$ C	85 $^{\circ}$ C < T \leq 105 $^{\circ}$ C	Products
2 V~6.3 V	1.0	0.7	0.25	2 V~6.3 V
10 V~35 V	1.0	0.8	0.5	10 V~35 V

表面贴装型

SV标准小型化系列



产品特点

- 高电压 (35V, max)
- 标准小型化 (高度 1.9mm)
- 耐纹波电流能力好 (10200mA, max)
- 环保 (符合无卤、RoHS和REACH规定)

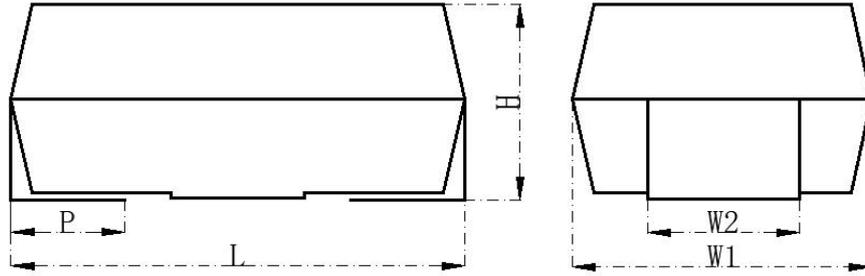
产品应用

- 服务器
- 5G通信基站
- 区块链
- 人工智能
- 笔记本电脑/显卡
- 无线充电器
- 固态硬盘
- 无人机
- 北斗卫星
- 物联网
- 安装监控
- 新能源汽车及其他

产品规格

系列	SV	
类别温度	-55℃~105℃	
额定电压	2V~35V	
静电容量范围 (120Hz, 20℃)	5μF~680μF	
漏电流 (LC)	2V~6.3V: ≤0.1CV, 10V~35V: ≤0.3CV (额定电压, 2分钟)	
静电容量容差	K档(-10%~+10%), M档(-20%~+20%), Y档(-35%~+10%) 或定制其他档位	
损耗角正切 (tgδ)	≤ 0.06 (频率: 120Hz, 温度: 20℃)	
浪涌电压 (V)	2V~16V:1.25*VR, 20V~25V:1.15*VR, 35V:1.05*VR (15℃~35℃)	
耐久性	温度: 105 ±3℃	外观: 无明显损伤
	施加电压: 额定电压(DC)	容量变化: 初始值的-20%~+20%
	测试时间: 2000h	损耗角正切 (tgδ): ≤0.12
	恢复时间: 1~2h	漏电流: ≤规定值
高温高湿	温度: 60 ±2℃	外观: 无明显损伤
	湿度: 90 ⁺² ₋₃ %RH	容量变化: 初始值的-20%~+70% (2V~2.5V), 初始值的-20%~+60% (4V~35V)
	空载, 测试时间: 500h	损耗角正切(tgδ): ≤0.12
	恢复时间: 1~2h	漏电流: ≤规定值的300%

产品尺寸



系列	L (mm)±0.4	W1 (mm)±0.3	H (mm)±0.2	P (mm)±0.2	W2 (mm)±0.1
SV	7.3	4.3	1.9	1.3	2.4

特性一览表

产品编号	额定电压 (V)	容量 (μF) *1	损耗 % *2	ESR (mΩ) *3	纹波电流 (mA) *4	漏电流 (μA) *5	
SV0D221MR015A0	2	220	0.06	15	5100	44	
SV0D271MR012A0		270	0.06	12	5600	54	
SV0D331MR015A0		330	0.06	15	5100	66	
SV0D331MR012A0		330	0.06	12	5600	66	
SV0D391MR015A0		390	0.06	15	5100	78	
SV0D471MR015A0		470	0.06	15	5100	94	
SV0D471MR006A0		470	0.06	6	7500	94	
SV0D471MR4R5A0		470	0.06	4.5	8500	94	
SV0D471MR003A0		470	0.06	3	10200	94	
SV0D561MR015A0		560	0.06	15	5100	112	
SV0D561MR4R5A0		560	0.06	4.5	8500	112	
SV0D561MR003A0		560	0.06	3	10200	112	
SV0D681MR4R5A0		680	0.06	4.5	8500	136	
SV0D681MR003A0		680	0.06	3	10200	136	
SV0E221MR015A0		2.5	220	0.06	15	5100	55
SV0E331MR015A0			330	0.06	15	5100	82.5
SV0E331MR012A0	330		0.06	12	5600	82.5	
SV0E331MR009A0	330		0.06	9	6300	82.5	
SV0E391MR015A0	390		0.06	15	5100	97.5	
SV0E471MR015A0	470		0.06	15	5100	117.5	
SV0E471MR009A0	470		0.06	9	6300	117.5	
SV0E471MR006A0	470		0.06	6	7500	117.5	
SV0E471MR4R5A0	470		0.06	4.5	8500	117.5	
SV0E471MR003A0	470		0.06	3	10200	117.5	
SV0E561MR4R5A0	560		0.06	4.5	8500	140	
SV0E561MR003A0	560		0.06	3	10200	140	
SV0E681MR4R5A0	680		0.06	4.5	8500	170	
SV0E681MR003A0	680		0.06	3	10200	170	
SV0G151MR015A0	4		150	0.06	15	5100	60
SV0G181MR015A0			180	0.06	15	5100	72
SV0G181MR012A0		180	0.06	12	5600	72	
SV0G221MR015A0		220	0.06	15	5100	88	
SV0G221MR012A0		220	0.06	12	5600	88	
SV0G271MR015A0		270	0.06	15	5100	108	
SV0G331MR015A0		330	0.06	15	5100	132	
SV0J470MR045A0		6.3	47	0.06	45	3000	29.6
SV0J101MR030A0	100		0.06	30	3500	63	
SV0J101MR015A0	100		0.06	15	3500	63	
SV0J121MR015A0	120		0.06	15	5100	75.6	
SV0J151MR018A0	150		0.06	18	4800	94.5	
SV0J151MR015A0	150		0.06	15	5100	94.5	
SV0J151MR012A0	150		0.06	12	5600	94.5	
SV0J181MR015A0	180		0.06	15	5100	113.4	
SV0J221MR015A0	220		0.06	15	5100	138.6	
SV0J331MR009A0	330		0.06	9	6300	207.9	

叠层导电高分子铝电容器 (SV系列)



特性一览表

产品编号	额定电压 (V)	容量 (μF) *1	损耗 *2	ESR (mΩ) *3	纹波电流 (mA) *4	漏电流 (μA) *5	
SV1A470MR040A0	10	47	0.06	40	3200	141	
SV1A680MR060A0		68	0.06	60	1400	204	
SV1A680MR040A0		68	0.06	40	3200	204	
SV1A101MR045A0		100	0.06	45	3000	300	
SV1A101MR040A0		100	0.06	40	3200	300	
SV1B680MR060A0	12.5	68	0.06	60	1400	255	
SV1B101MR045A0		100	0.06	45	3000	375	
SV1B151MR030A0		150	0.06	30	3500	562.5	
SV1C100MR080A0	16	10	0.06	80	1200	48	
SV1C150MR040A0		15	0.06	40	3200	72	
SV1C220MR060A0		22	0.06	60	1400	105.6	
SV1C220MR040A0		22	0.06	40	3200	105.6	
SV1C330MR045A0		33	0.06	45	3000	158.4	
SV1C330MR040A0		33	0.06	40	3200	158.4	
SV1C470MR045A0		47	0.06	45	3000	225.6	
SV1C470MR040A0		47	0.06	40	3200	225.6	
SV1C680MR040A0		68	0.06	40	3200	326.4	
SV1C101MR030A0		100	0.06	30	3500	480	
SV1C151MR030A0		150	0.06	30	3500	720	
SV1D220MR060A0		20	22	0.06	60	1400	132
SV1D220MR040A0			22	0.06	40	3200	132
SV1D330MR045A0	33		0.06	45	3000	198	
SV1D330MR040A0	33		0.06	40	3200	198	
SV1D470MR040A0	47		0.06	40	3200	282	
SV1D470MR030A0	47		0.06	30	3500	282	
SV1D560MR040A0	56		0.06	40	3200	336	
SV1D560MR030A0	56		0.06	30	3500	336	
SV1D680MR030A0	68		0.06	30	3500	408	
SV1E100MR080A0	25	10	0.06	80	1200	75	
SV1E150MR060A0		15	0.06	60	1400	112.5	
SV1E150MR040A0		15	0.06	40	3200	112.5	
SV1E220MR045A0		22	0.06	45	3000	165	
SV1E220MR040A0		22	0.06	40	3200	165	
SV1E330MR045A0		33	0.06	45	3000	247.5	
SV1E330MR040A0		33	0.06	40	3200	247.5	
SV1E470MR045A0		47	0.06	45	3000	352.5	
SV1E560MR045A0		56	0.06	45	3000	420	
SV1V050MR100A0	35	5	0.06	100	900	52.5	
SV1V100MR080A0		10	0.06	80	1200	105	

备注:

*1: 120Hz, +20±1℃

*2: 120Hz, +20±1℃

*3: 100KHz, +20±1℃

*4: 100KHz, +45±1℃

*5: 额定电压, 2分钟

纹波电流温度系数

产品	T≤45℃	45℃<T≤85℃	85℃<T≤105℃	产品
2 V~6.3 V	1.0	0.7	0.25	2 V~6.3 V
10 V~35 V	1.0	0.8	0.5	10 V~35 V