

压敏电阻

Metal Oxide Varistor (MOV)

SFV25S 系列 Series

简介 Description

金属氧化物压敏电阻 (MOV) 是以氧化锌 (ZnO) 为主要成分的非线性电阻元件, 该元件浪涌电流耐量及非线性系数非常大, 在阈值电压以下时, 电阻非常高, 几乎没有电流流过, 如果超过该阈值电压, 电阻急剧降低, 可以泄放大电流; 由于这种特性, 作为电子、电气设备的保护元件, 对异常电压的吸收, 雷击浪涌的吸收等发挥着很大的作用。

赛尔特的压敏电阻具有高通流密度、低限制电压、良好的交流耐受能力, 同时可以根据客户要求定制。

Metal Oxide Varistor (MOV) as one nonlinear resistance element is mainly made of zinc oxide (ZnO), which has very high surge capacity and big nonlinear coefficient. Below the threshold voltage, its resistance is very high, nearly no current flows through, but above the threshold voltage, the resistance reduces sharply, huge current can be discharged. Due to this characteristic, Varistor as a protection component in electronic and electrical equipment can absorb abnormal over-voltage and lightning surge.

SETsafe | SETfuse Varistor is with High Surge Current Density, Low Clamping Voltage, and Good Surge Capacity. It can also be customized as required.



产品结构 Product Structure



应用领域 Applications

- 电源 Power Supplies
- 家用电器 Home Electrical Appliances
- 工业设备 Industrial Devices
- 防雷插座 Surge Protectors
- 通信电源 Telecom Devices

安规信息 Agency Approvals

认证 Agency	标准 Standards	认证号 No.
	UL 1449 4 th Edition	E322662
	CSA C22.2 NO.269.5-17	E322662
	EN 61051-1:2008 IEC 61051-1:2007 IEC 61051-2:1991+A1 IEC 61051-2-2:1991 Annex Q of IEC 60950-1:2005+A1+A2	J 50401611

引线类型 Lead Types

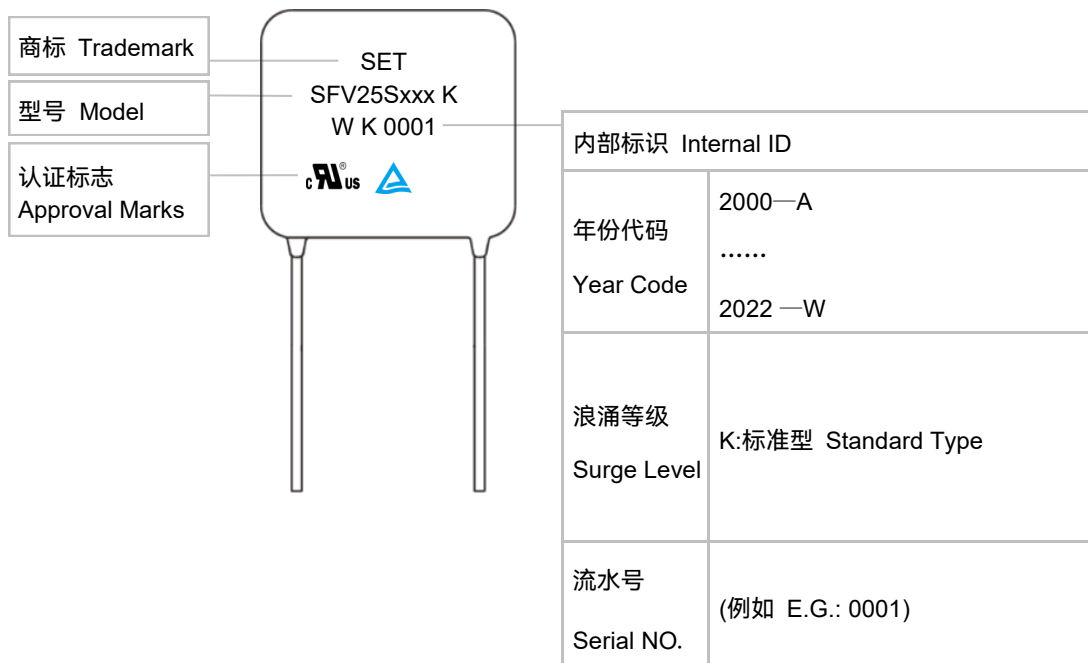
引线类型 Lead Types	代码 Codes
直型引线 Straight Lead	A
直带型端子 Straight Strap Terminals	E

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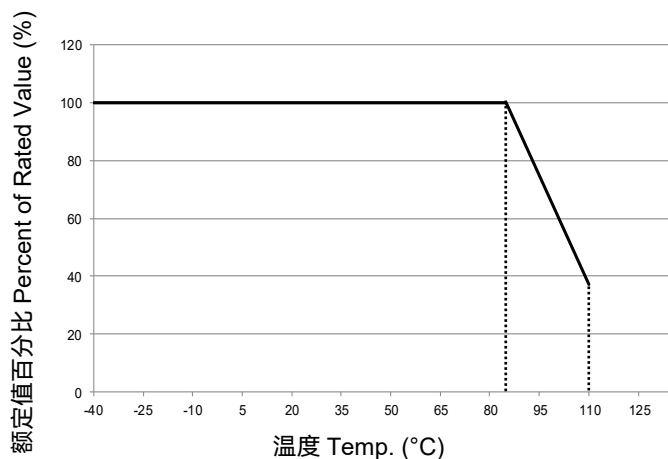
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产品标识 Marking



温度降额曲线 Temp. Derating Curve



常温系列温度降额曲线
For Normal Temp. Series

备注：应用环境温度超过85 °C 时，峰值电流和能量额定值应按照上述曲线相应的降低。

Note: When ambient temp. exceeds 85 °C, the peak surge current and energy rating should be reduced as shown in left curve.

技术参数 General Technical Data

项目 Item	值 Value	单位 Unit
工作温度 Operating Temp.	-40 ~ +85	°C
存储温度 Storage Temp.	-40 ~ +125	°C
耐电压 Voltage Proof	≥2500	V _{ac}
绝缘电阻 Insulation Resistance	≥100	MΩ

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型号说明 Part Numbering System

SFV 25 S 471 - K N K A BUL - 001

流水号 Other Options

包装 & 引脚长度 Packaging & Lead Length

散装: 散装+标准长度

BUL: Bulk + Standard Lead Length

散装: 散装+切脚至长度 3.5mm (范围: 2.5mm-6mm)

C35: Bulk + Cut to 3.5 mm (Range: 2.5 mm to 6 mm)

引脚类型 Lead Types

A: 直线型引线 Straight Lead

E: 直带型端子 Straight Strap Terminals

浪涌等级 Surge Level

K: 标准型 Standard Type

工作温度 Operating Temp.

N: 环氧树脂封装 Epoxy Coating 85 °C

电压公差 Voltage Tolerance

K: $\pm 10\%$

J: $\pm 5\%$

S: 特殊定制 Special Tolerance

标称压敏电压 Nominal Varistor Voltage

220: $22 \times 10^0 = 22V$

471: $47 \times 10^1 = 470 V$

122: $12 \times 10^2 = 1200 V$

形状 Disk Shape

S: 正方形 Square

基片尺寸 Bare Disk Dimension

正方形 S 25: 25×25 mm

产品类别 Product Category

压敏电阻

Setfuse Varistor

*更多细节请参照包装信息

*For More Details Refer To Packaging Information.

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术语 Glossary

项目 Item	描述 Description
V_N	标准压敏电压 Nominal Varistor Voltage 在规定持续时间的脉冲电流下测得MOV两端的电压。 Voltage, at specified D.C. current used as a reference point in the component characteristics.
I_L	漏电流 Leakage Current 在25°C或规定的其它温度下，施加最大直流电压时，通过压敏电阻器中的电流。 Current passing through the varistor at the max. d.c. voltage, and at a temp. of 25 °C, or any other specified temp.
UCT	上限类别温度 Upper Category Temp. 压敏电阻器设计所确定的能够连续工作的最高环境温度。 Max. ambient temp. for which a varistor has been designed to operate continuously.
LCT	下限类别温度 Lower Category Temp. 压敏电阻器设计所确定的能够连续工作的最低环境温度。 Minimum ambient temp. at which a varistor has been designed to operate continuously.
Max. Peak Current	最大峰值电流 Max. Peak Current 在环境温度25°C时，对于规定的脉冲次数而言，压敏电阻器中允许通过的每个脉冲的最大电流值。 Max. current per pulse, which may be passed by a varistor at an ambient temp. of 25 °C, for a given number of pulses.
V_C	箝制电压 Clamping Voltage 规定脉冲峰值电流及规定波形下测得MOV两端的电压峰值。 Peak voltage developed across the varistor terminations under standard atmospheric conditions, when passing an 8/20 μ s class current pulse.
Voltage Proof	耐电压 Voltage Proof 连续可施加在压敏电阻器引出端和导电性安装之间的最大峰值电压。 Max. peak voltage, which may be applied under continuous operating conditions between the varistor terminations and any conducting mounting surface (Applicable only to insulated varistors).
C_V	电容量 Capacitance MOV两端之间的电容量，其测量应在规定的正弦频率和电压以及规定的温度下进行。除非另有规定，推荐采用25°C下,1 V _{r.m.s.} ,1 kHz的信号。 Capacitance across the MOV measured at a specified frequency and voltage.
V_{ac}	最大连续交流电压 Max. Continuous a.c. Voltage 在环境温度25°C时，可以施加在元件上连续工作的、波形基本是正弦波（总谐波畸变小于5%）的最大交流电压有效值。当温度高于25°C时，详细规范应给出降额曲线。 Max. a.c. r.m.s. voltage of a substantially sinusoidal waveform (less than 5% total harmonic distortion) which can be applied to the component under continuous operating conditions at 25 °C.
V_{dc}	最大连续直流电压 Max. Continuous d.c. Voltage 在环境温度25°C时，可以施加在元件上连续工作的最大直流电压（波纹小于5%）。当温度高于25°C时，详细规范应给出降额曲线。 Max. d.c. voltage (with less than 5% ripple) which can be applied to the component under continuous operating conditions at an ambient temp. of 25 °C.

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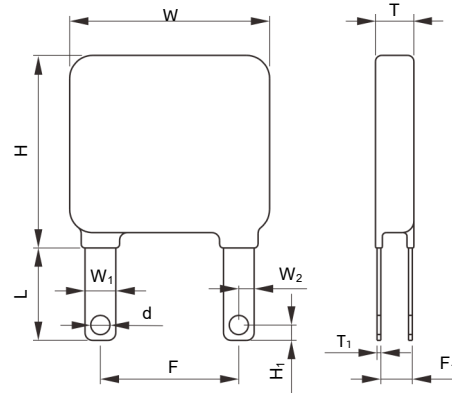
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尺寸 Dimensions (mm)



直带型端子 Straight Strap Terminals



型号 Model	L	W (Max.)	W ₁	W ₂	H (Max.)	H ₁	T (Max.)	T ₁	d	F	F ₁
SFV25S220	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.2	0.50±0.05	2.50±0.05	18.0±1.0	0.8 - 2.2
SFV25S270	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.5	0.50±0.05	2.50±0.05	18.0±1.0	0.9 - 2.4
SFV25S330	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.8	0.50±0.05	2.50±0.05	18.0±1.0	1.0 - 2.6
SFV25S390	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	5.1	0.50±0.05	2.50±0.05	18.0±1.0	1.1 - 2.8
SFV25S470	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.3	0.50±0.05	2.50±0.05	18.0±1.0	0.9 - 2.4
SFV25S560	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.5	0.50±0.05	2.50±0.05	18.0±1.0	1.0 - 2.6
SFV25S680	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.8	0.50±0.05	2.50±0.05	18.0±1.0	1.2 - 2.9
SFV25S820	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.1	0.50±0.05	2.50±0.05	18.0±1.0	0.9 - 2.3
SFV25S101	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.3	0.50±0.05	2.50±0.05	18.0±1.0	1.0 - 2.5
SFV25S121	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.5	0.50±0.05	2.50±0.05	18.0±1.0	1.1 - 2.7
SFV25S151	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.8	0.50±0.05	2.50±0.05	18.0±1.0	1.4 - 3.0
SFV25S181	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.3	0.50±0.05	2.50±0.05	18.0±1.0	1.1 - 2.6
SFV25S201	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.4	0.50±0.05	2.50±0.05	18.0±1.0	1.2 - 2.7
SFV25S221	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.5	0.50±0.05	2.50±0.05	18.0±1.0	1.3 - 2.8
SFV25S241	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.6	0.50±0.05	2.50±0.05	18.0±1.0	1.4 - 2.9
SFV25S271	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	4.8	0.50±0.05	2.50±0.05	18.0±1.0	1.5 - 3.1
SFV25S301	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	5.0	0.50±0.05	2.50±0.05	18.0±1.0	1.6 - 3.3
SFV25S331	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	5.2	0.50±0.05	2.50±0.05	18.0±1.0	1.7 - 3.4
SFV25S361	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	5.4	0.50±0.05	2.50±0.05	18.0±1.0	1.8 - 3.6
SFV25S391	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	5.6	0.50±0.05	2.50±0.05	18.0±1.0	1.9 - 3.8
SFV25S431	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	5.8	0.50±0.05	2.50±0.05	18.0±1.0	2.0 - 4.0
SFV25S471	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	6.1	0.50±0.05	2.50±0.05	18.0±1.0	2.3 - 4.3
SFV25S511	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	6.3	0.50±0.05	2.50±0.05	18.0±1.0	2.5 - 4.5
SFV25S561	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	6.6	0.50±0.05	2.50±0.05	18.0±1.0	2.8 - 4.8
SFV25S621	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	7.0	0.50±0.05	2.50±0.05	18.0±1.0	3.1 - 5.1
SFV25S681	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	7.4	0.50±0.05	2.50±0.05	18.0±1.0	3.5 - 5.5
SFV25S751	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	7.8	0.50±0.05	2.50±0.05	18.0±1.0	3.9 - 5.9
SFV25S821	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	8.3	0.50±0.05	2.50±0.05	18.0±1.0	4.3 - 6.3
SFV25S911	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	8.8	0.50±0.05	2.50±0.05	18.0±1.0	4.9 - 6.9
SFV25S102	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	9.4	0.50±0.05	2.50±0.05	18.0±1.0	5.4 - 7.4
SFV25S112	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	10.0	0.50±0.05	2.50±0.05	18.0±1.0	6.0 - 8.0
SFV25S122	12.0±3.0	28	4.00±0.05	2.00±0.05	30	2.00±0.05	10.6	0.50±0.05	2.50±0.05	18.0±1.0	6.6 - 8.6

MOV

MOV

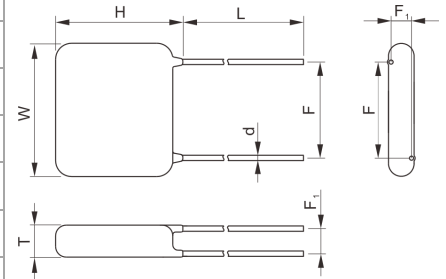
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尺寸 Dimensions (mm)

型号 Model	L	W (Max.)	H (Max.)	T (Max.)	d	F	F ₁
SFV25S220K	16.0±3.0	28	30	6.6	1.20±0.05	18.0±1.0	2.0 - 3.9
SFV25S270K	16.0±3.0	28	30	6.9	1.20±0.05	18.0±1.0	2.1 - 4.1
SFV25S330K	16.0±3.0	28	30	7.2	1.20±0.05	18.0±1.0	2.3 - 4.3
SFV25S390K	16.0±3.0	28	30	7.5	1.20±0.05	18.0±1.0	2.5 - 4.5
SFV25S470K	16.0±3.0	28	30	6.7	1.20±0.05	18.0±1.0	2.1 - 4.1
SFV25S560K	16.0±3.0	28	30	6.9	1.20±0.05	18.0±1.0	2.3 - 4.3
SFV25S680K	16.0±3.0	28	30	7.2	1.20±0.05	18.0±1.0	2.6 - 4.6
SFV25S820K	16.0±3.0	28	30	6.5	1.20±0.05	18.0±1.0	2.0 - 4.0
SFV25S101K	16.0±3.0	28	30	6.7	1.20±0.05	18.0±1.0	2.2 - 4.2
SFV25S121K	16.0±3.0	28	30	6.9	1.20±0.05	18.0±1.0	2.4 - 4.4
SFV25S151K	16.0±3.0	28	30	7.2	1.20±0.05	18.0±1.0	2.7 - 4.7
SFV25S181K	16.0±3.0	28	30	6.7	1.20±0.05	18.0±1.0	2.3 - 4.3
SFV25S201K	16.0±3.0	28	30	6.8	1.20±0.05	18.0±1.0	2.4 - 4.4
SFV25S221K	16.0±3.0	28	30	6.9	1.20±0.05	18.0±1.0	2.5 - 4.5
SFV25S241K	16.0±3.0	28	30	7.0	1.20±0.05	18.0±1.0	2.6 - 4.6
SFV25S271K	16.0±3.0	28	30	7.2	1.20±0.05	18.0±1.0	2.8 - 4.8
SFV25S301K	16.0±3.0	28	30	7.4	1.20±0.05	18.0±1.0	3.0 - 5.0
SFV25S331K	16.0±3.0	28	30	7.6	1.20±0.05	18.0±1.0	3.1 - 5.1
SFV25S361K	16.0±3.0	28	30	7.8	1.20±0.05	18.0±1.0	3.3 - 5.3
SFV25S391K	16.0±3.0	28	30	8.0	1.20±0.05	18.0±1.0	3.5 - 5.5
SFV25S431K	16.0±3.0	28	30	8.2	1.20±0.05	18.0±1.0	3.7 - 5.7
SFV25S471K	16.0±3.0	28	30	8.5	1.20±0.05	18.0±1.0	4.0 - 6.0
SFV25S511K	16.0±3.0	28	30	8.7	1.20±0.05	18.0±1.0	4.2 - 6.2
SFV25S561K	16.0±3.0	28	30	9.0	1.20±0.05	18.0±1.0	4.5 - 6.5
SFV25S621K	16.0±3.0	28	30	9.4	1.20±0.05	18.0±1.0	4.8 - 6.8
SFV25S681K	16.0±3.0	28	30	9.8	1.20±0.05	18.0±1.0	5.2 - 7.2
SFV25S751K	16.0±3.0	28	30	10.2	1.20±0.05	18.0±1.0	5.6 - 7.6
SFV25S821K	16.0±3.0	28	30	10.7	1.20±0.05	18.0±1.0	6.0 - 8.0
SFV25S911K	16.0±3.0	28	30	11.2	1.20±0.05	18.0±1.0	6.6 - 8.6
SFV25S102K	16.0±3.0	28	30	11.8	1.20±0.05	18.0±1.0	7.1 - 9.1
SFV25S112K	16.0±3.0	28	30	12.4	1.20±0.05	18.0±1.0	7.7 - 9.7
SFV25S122K	16.0±3.0	28	30	13.0	1.20±0.05	18.0±1.0	8.3 - 10.3



直型引线 Straight Lead

备注：以上数据仅供参考

The above data is for reference only.

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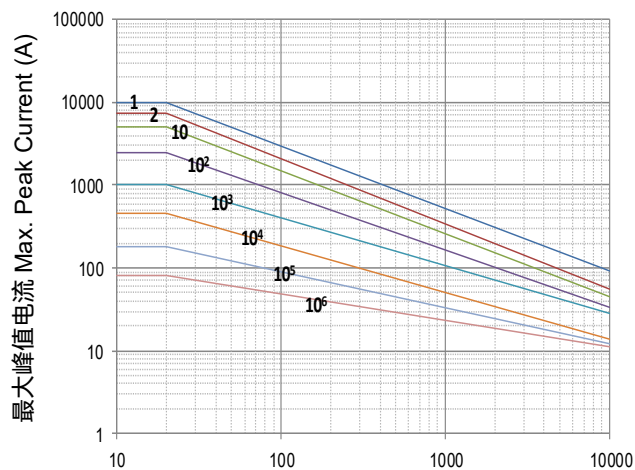
技术参数 Specification

型号 Model	最大连续工作电压 Max. Continuous Operating Voltage		压敏电压 Varistor Voltage @1 mA DC		箝制电压 Clamping Voltage (Max.)		最大放电电流 Max. Discharge Current (8/20 μs)		最大能量 Max. Energy (10/1000 μs)	静态电容 Typical Capacitance (For reference only) @1 kHz	安规认证 Agency Approvals			
	Vac	Vdc	Min.	Max.	V _C	I _P	I _n	I _{max}	(J)	(pF)				
	(V)	(V)	(V)	(V)	(V)	(A)	(kA)	(kA)			UL	cUL	TUV	CQC
SFV25S220K	14	18	20	24	43	35	1.5	3	20	35000	●	●	○	○
SFV25S270K	17	22	24	31	53	35	3	6	33	30000	●	●	●	○
SFV25S330K	20	26	30	36	65	35	4	8	42	24500	●	●	●	○
SFV25S390K	25	31	35	43	77	35	4	8	49	21000	●	●	●	○
SFV25S470K	30	38	42	52	93	35	4	8	60	17250	●	●	●	○
SFV25S560K	35	45	50	62	110	35	5	10	72	14500	●	●	●	○
SFV25S680K	40	56	61	75	135	35	5	10	85	9500	●	●	●	○
SFV25S820K	50	65	74	90	135	175	10	25	98	8800	●	●	●	○
SFV25S101K	60	85	90	110	165	175	10	25	122	7200	●	●	●	○
SFV25S121K	75	100	108	132	200	175	10	25	146	6000	●	●	●	○
SFV25S151K	95	125	135	165	250	175	10	25	185	4400	●	●	●	○
SFV25S181K	115	150	162	198	300	175	10	25	218	3650	●	●	●	○
SFV25S201K	130	170	180	220	340	175	10	25	252	3300	●	●	●	○
SFV25S221K	140	180	198	242	360	175	10	25	280	3000	●	●	●	○
SFV25S241K	150	200	216	264	395	175	10	25	302	2800	●	●	●	○
SFV25S271K	175	225	243	297	455	175	10	25	340	2450	●	●	●	○
SFV25S301K	190	250	270	330	500	175	10	25	375	2200	●	●	●	○
SFV25S331K	210	275	297	363	550	175	10	25	410	2050	●	●	●	○
SFV25S361K	230	300	324	396	595	175	10	25	465	1850	●	●	●	○
SFV25S391K	250	320	351	429	650	175	10	25	520	1700	●	●	●	○
SFV25S431K	275	350	387	473	710	175	10	25	575	1600	●	●	●	○
SFV25S471K	300	385	423	517	775	175	10	25	630	1450	●	●	●	○
SFV25S511K	320	415	459	561	845	175	10	25	665	1300	●	●	●	○
SFV25S561K	350	460	504	616	925	175	10	25	720	1200	●	●	●	○
SFV25S621K	385	505	558	682	1025	175	10	25	790	1100	●	●	●	○
SFV25S681K	420	560	612	748	1120	175	10	25	790	1000	●	●	●	○
SFV25S751K	460	615	675	825	1240	175	10	25	825	900	●	●	●	○
SFV25S821K	510	670	738	902	1355	175	10	25	840	800	●	●	●	○
SFV25S911K	550	745	819	1001	1500	175	10	25	900	700	●	●	●	○
SFV25S102K	625	825	900	1100	1650	175	10	25	950	660	●	●	●	○
SFV25S112K	680	895	990	1210	1815	175	10	25	1040	615	●	●	●	○
SFV25S122K	750	1000	1080	1320	1980	175	10	25	1170	555	●	●	●	○

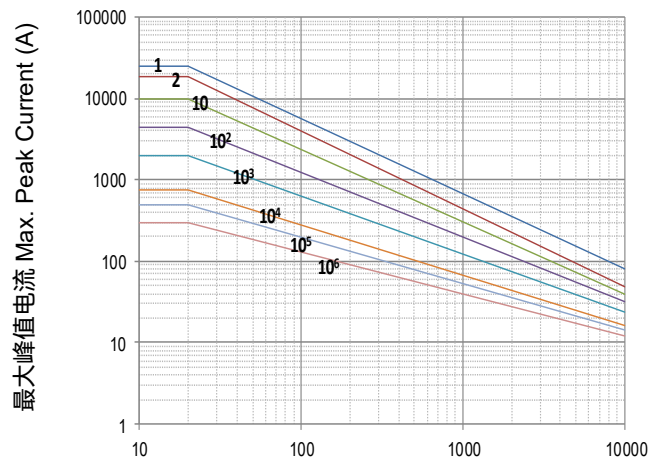
备注 Note: ● 已认证 Approved ○ 无认证 Unauthorized

性能曲线（仅供参考） Performance Curve (For reference only)

● 最大峰值电流降额曲线 Max. Peak Current Derating Curves



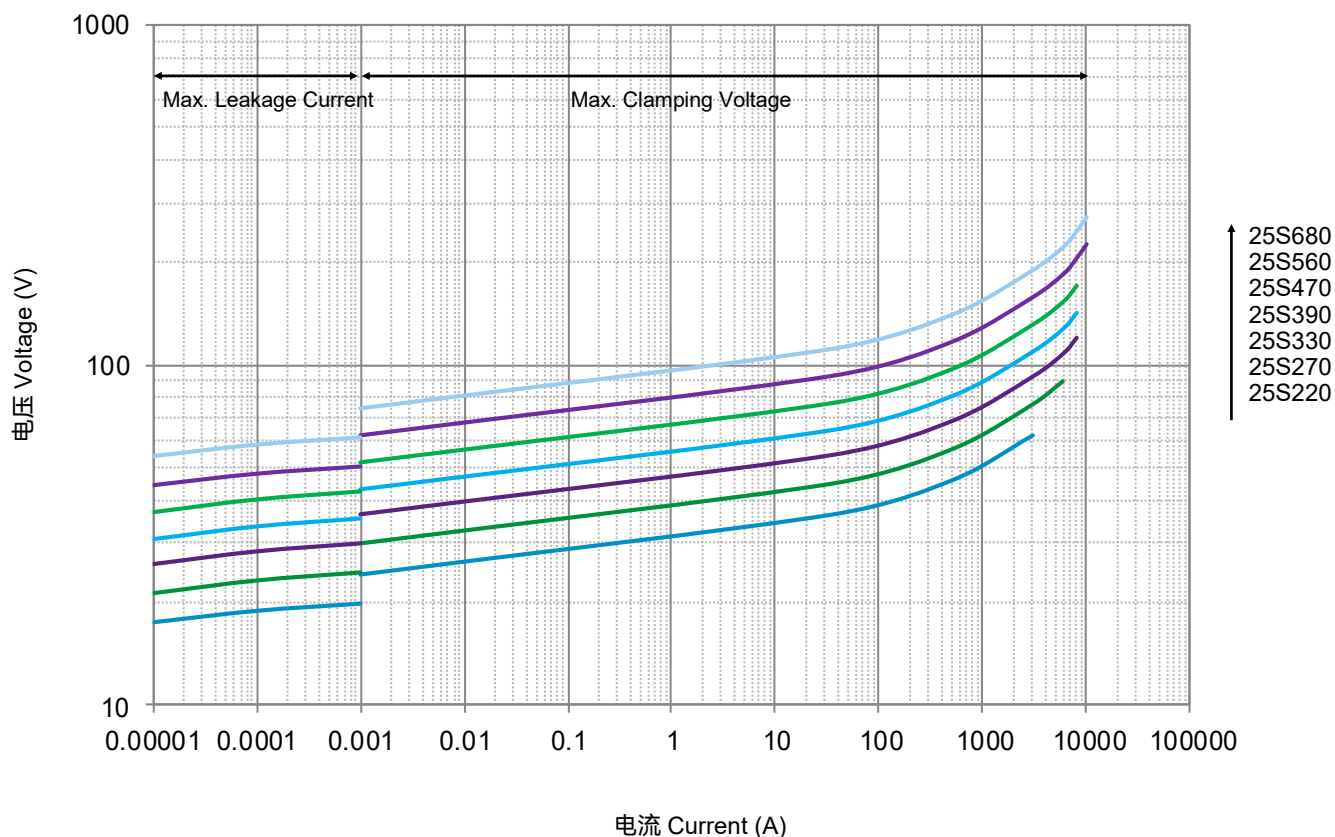
脉冲持续时间 Impulse Duration (μs)
SFV25S220K to SFV25S680K



脉冲持续时间 Impulse Duration (μs)
SFV25S820K to SFV25S122K

备注 Note: 1, 2, 10, 10², 10³, 10⁴, 10⁵, 10⁶ 表示重复冲击次数 Stand for Repetitions.

● 伏安特性曲线 Voltage-Current Characteristic Curves

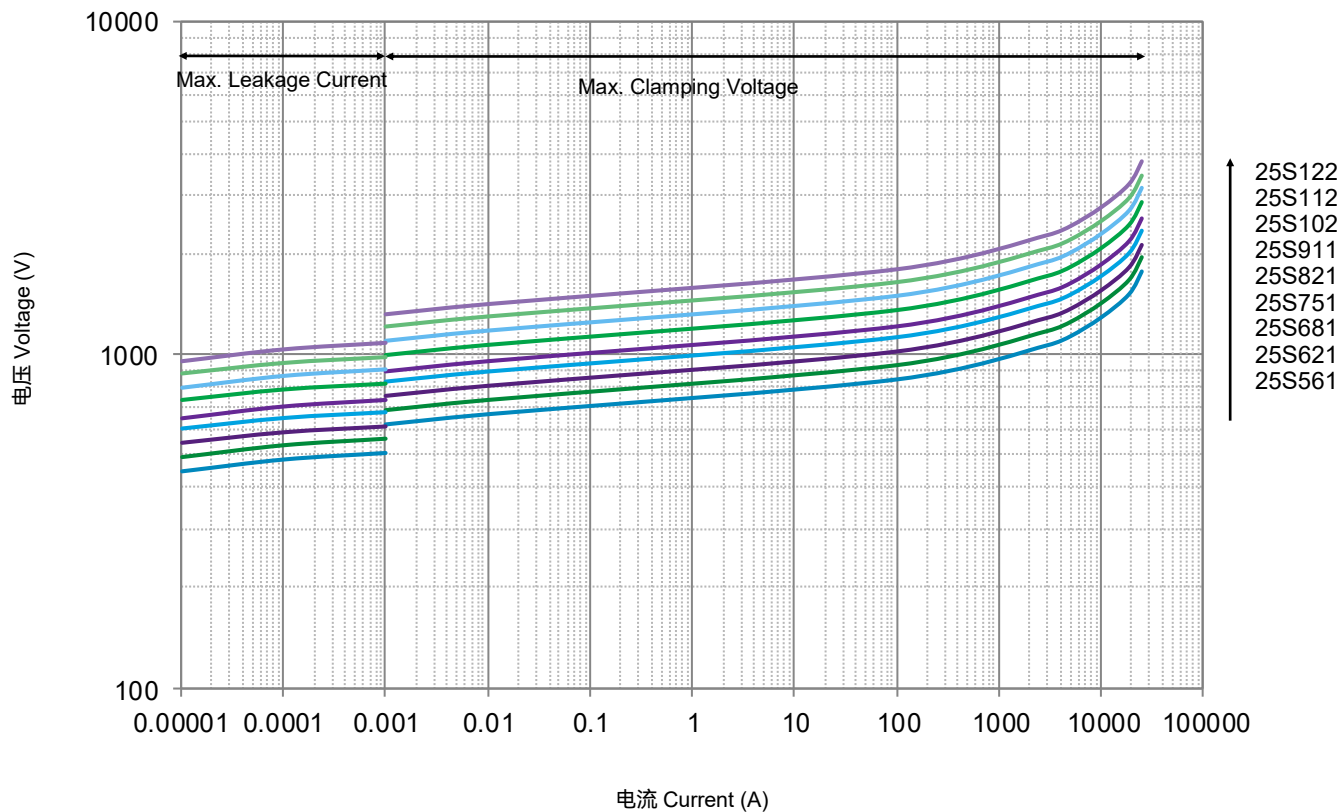
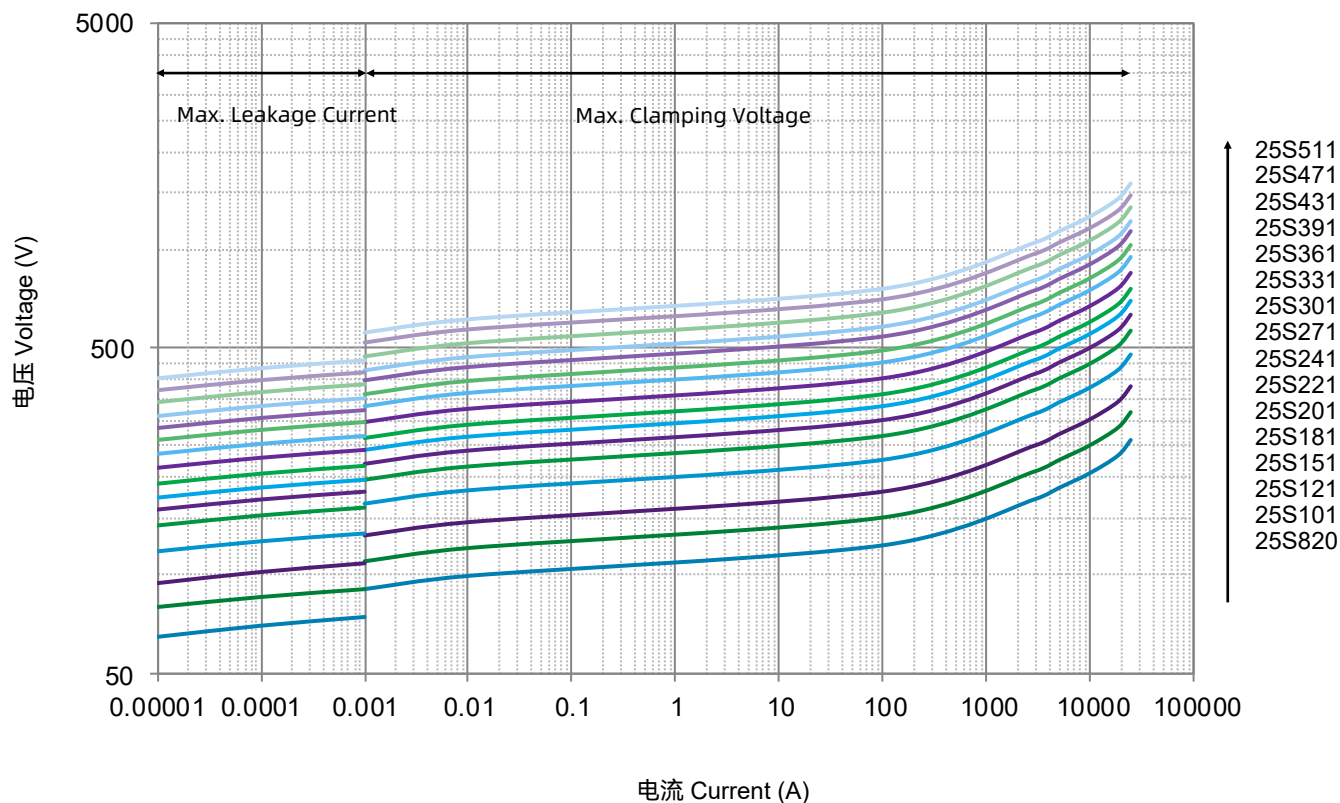


压敏电阻

Metal Oxide Varistor (MOV)

SFV25S 系列 Series

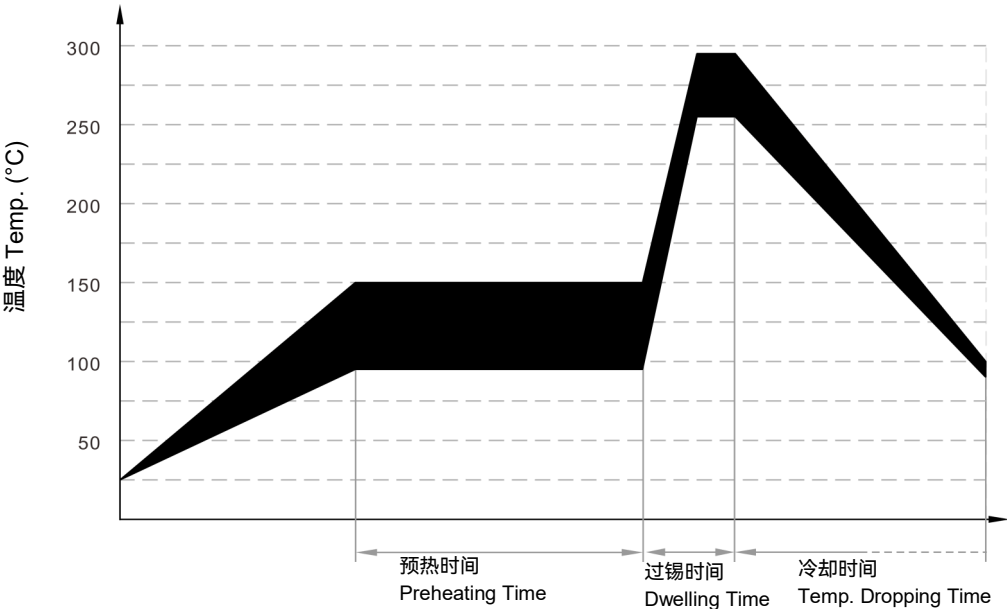
● 伏安特性曲线 Voltage-Current Characteristic Curves



焊接参数 Soldering Parameters

波峰焊参数 Wave Soldering Parameters

本波峰焊参数仅供参考，实际使用时应做相关的试验进行验证。
The wave soldering parameters are for reference only. When MOV is for practice use, some related validation is recommended.



波峰焊曲线 Wave Soldering Curve

项目 Item	温度 Temp. (°C)	时间 Time (s)
预热 Preheating	90 ~ 150	<150
过锡 Dwelling	255 ~ 290	3 ~ 10

手工焊参数 Hand-Soldering Parameters

项目 Item	条件 Condition
烙铁头部温度 Temp. of Solder Head	350 °C (max.)
焊接时间 Soldering Time	4 s (max.)

压敏电阻

Metal Oxide Varistor (MOV)

SFV25S 系列 Series

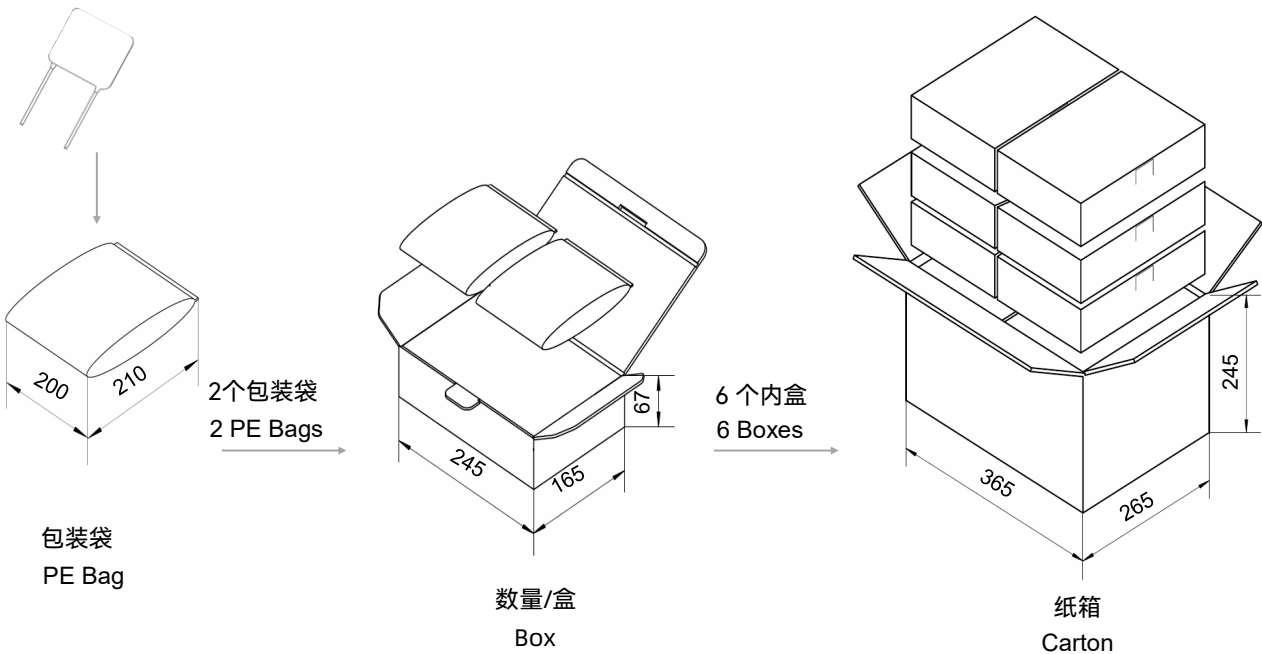
包装 Packaging Information

- 散装 Bulk Packaging (Code: BUL)
- 散装包装数量和重量 Bulk Packaging Quantity & Weight.

系列 Series	标称压敏电压 Nominal Varistor Voltage	PE袋 PE Bag	数量/盒 Box	数量/箱 Carton	毛重/箱 (365 × 265 × 245) G. W. / Carton
25S	(V)	(PCS)	(PCS)	(PCS)	(kg)±10%
	220 ~ 821	100	200	1200	10 ~ 26
	911 ~ 122	80	160	960	23 ~ 28

备注：其它脚长包装信息请咨询赛尔特。
 Note: Other lead length packaging information, please contact SETsafe | SETfuse.

单位 Dimensions (mm)





注意 ATTENTION

使用 Usage

1. 压敏电阻的使用环境温度不能超出技术条件规定的范围。
Varistor must operate within the specified ambient temp.
2. 请不要用酮类、酯类、苯类、卤代烃等强极性溶剂清洗本产品，以免破坏产品的封装层。
Do not clean the varistor with strong polar solvent such as ketone, esters, benzene, halogenated hydrocarbon, to avoid damaging the encapsulating layer.
3. 请不要强烈的振动、冲击或施加压力，以免压敏电阻表面树脂或元件产生裂痕。
Please do not apply severe vibration, shock or pressure to MOV, to avoid surface resin or element cracking.
4. 对引线进行弯曲加工或切断加工时，请固定元件端引线。折弯距离引线绝缘覆盖部分至少2 mm。
Please fix lead wires when bending or cutting. The distance between the bending point and the sealing of MOV shall be greater than 2 mm.

更换 Replacement

如发现压敏电阻外观有损伤，请更换。

If varistor is visually damaged, please replace it.

贮存 Storage

1. 存储温度：Storage Temp. Range: (-40 to +125) °C
2. 相对湿度：Relative Humidity: ≤75% RH
3. 海拔高度：Altitude: <2000 m

压敏电阻

Metal Oxide Varistor (MOV)

SFV25S 系列 Series

4. 压敏电阻的存储应避免高温、高湿、阳光直射和腐蚀性气体的场合，以免影响引脚的可焊性，产品出厂后请于1年内使用。

Do not store the MOV at the high temp., high humidity or corrosive gas environment, to avoid influencing the solder-ability of the lead wires, the product shall be used up within 1 year after receiving the goods.

不适宜环境条件 Environmental Conditions

1. 压敏电阻不应直接暴露在露天工作。
Varistor should not be exposed to the open air.
2. 压敏电阻应避免在雨水，水蒸汽等高温高湿的条件下工作。
Varistor should avoid rain, water vapor or other condition of high temp. and high humidity.
3. 压敏电阻应避免在沙尘、盐雾、有害气体的条件下工作。
Varistor should avoid sand dust, salt spray, or other harmful gases.

压敏电阻的固有电容 Max. Typical Capacitance of Varistor

压敏电阻的固有电容最大参考值已在规格表中列出，供设计师在高频电路中选择时参考。

The typical capacitance of varistor is listed in the specifications. Designers may refer to it when designing MOV in high frequency circuit.

安装 Installation

机械应力 Mechanical Stress

安装时应避免敲击压敏电阻，以免造成机械损伤。

Do not knock MOV when installing, to avoid mechanical damage.

MOV

MOV