MOV
Metal Oxide Varistor

SFV25D M Series

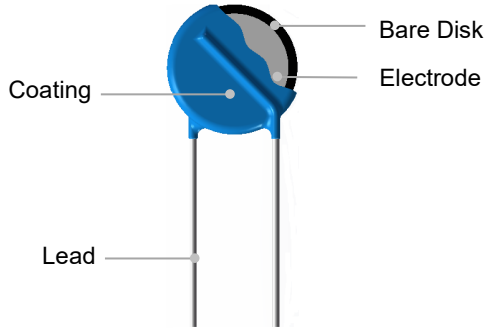
Description

Metl Oxide Varistor (MOV) is a nonlinear resistance component with zinc oxide (ZnO) as its main constituent. The resistance of an MOV is sensitive to changes in the lied voltage. Below the threshold voltage, the MOV exhibits high resistance, allowing only a negligibly small leakage current to flow. Once the threshold voltage is exceeded, the resistance of the MOV drops sharply, enabling the conduction of a large current. This characteristic makes the MOV suitable for detecting and suppressing surge voltage and overvoltage, thereby protect the circuit from damage caused by excessive voltage.

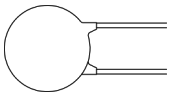
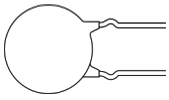
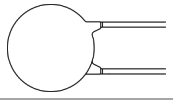
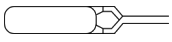
The Metal Oxide Varistor (MOV) finds wide application in various fields such as photovolt aics, communication, lightning protection, power supply, and power strips. It serves to suppress transient overvoltage and absorb surge energy within the circuit.

SETsafe | SETfuse offers Metal Oxide Varistors (MOV) with maximum peak current ratings ranging from 0.75 kA to 70 kA, and maximum continuous voltage ratings from 14VAC to 750 VAC. Safety certification Includes UL, cUL, TUV, and CQC, and comply with RoHS and REACH requirements.

Product Structure



Lead Types

Lead Types		Codes
Straight Lead		A
Outward Crimp Lead		C
Little Straight Lead		I
Inline Crimp Lead		D

Agency Information

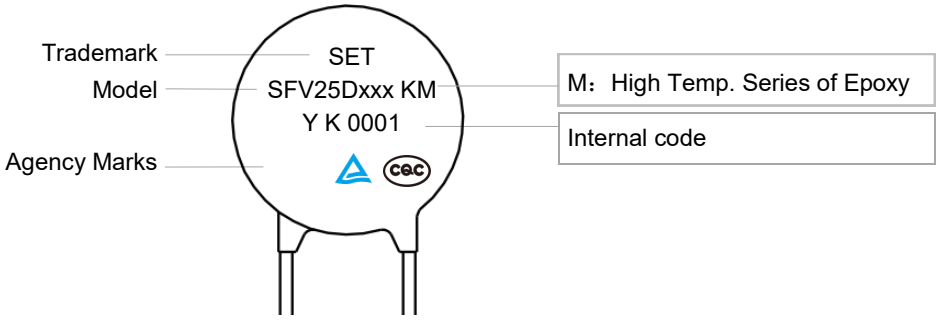
Agency	Standards	No.
TÜVRheinland	EN IEC 61051-1:2018 EN IEC 61051-2:2021 IEC 61051-2-2:1991 Annex G.8.1 of IEC 62368-1:2018	J 50500874
CQC	GB/T 10193-1997 GB/T 10194-1997 GB 4943.1-2022 IEC 61051-2-1991+Amd1:2009	CQC21001292477

Applications

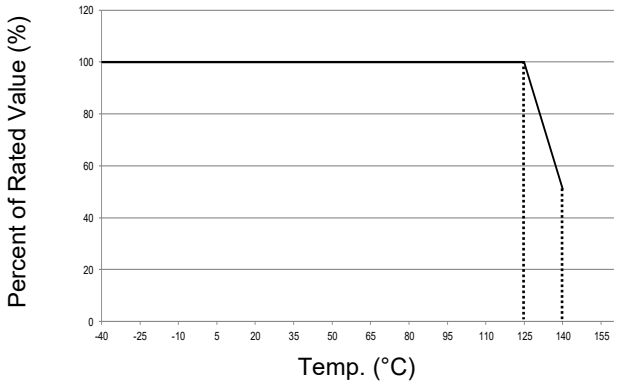
- Power Supplies
- Home Electrical Appliances
- Industrial Devices
- Surge Protectors
- Telecom Devices

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Marking



Temp. Derating Curve



For High Temp. Series Products

Note:

For high temp. series, when ambient temp. exceeds 125 °C, the peak surge current and energy rating should be reduced as shown in the left curve.

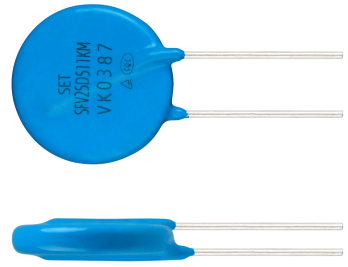
General Technical Data

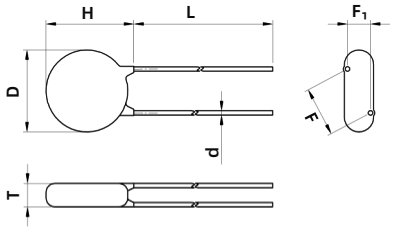
Item	Value	Unit
Operating Temperature	-40 ~ +125	°C
Storage Temperature	-40 ~ +150	°C
Voltage Proof	≥2500	V_{ac}
Insulation Resistance	≥100	MΩ

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

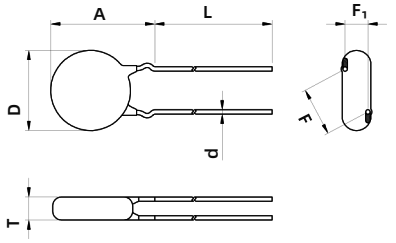
Dimensions (mm)

Model	L (Min.)	H (Max.)	T (Max.)	D (Max.)	d	F	F_1	A (Max.)
SFV25D470KM	20	32	5.6	28	1.20±0.05	10.0±1.0	1.4 ~ 3.1	35
SFV25D560KM	20	32	5.8	28	1.20±0.05	10.0±1.0	1.5 ~ 3.3	35
SFV25D680KM	20	32	6.1	28	1.20±0.05	10.0±1.0	1.6 ~ 3.6	35
SFV25D820KM	20	32	5.4	28	1.20±0.05	10.0±1.0	1.4 ~ 3.0	35
SFV25D101KM	20	32	5.6	28	1.20±0.05	10.0±1.0	1.5 ~ 3.2	35
SFV25D121KM	20	32	5.8	28	1.20±0.05	10.0±1.0	1.6 ~ 3.4	35
SFV25D151KM	20	32	6.1	28	1.20±0.05	10.0±1.0	1.7 ~ 3.7	35
SFV25D181KM	20	32	5.4	28	1.20±0.05	10.0±1.0	1.4 ~ 3.3	35
SFV25D201KM	20	32	5.5	28	1.20±0.05	10.0±1.0	1.5 ~ 3.4	35
SFV25D221KM	20	32	5.6	28	1.20±0.05	10.0±1.0	1.6 ~ 3.5	35
SFV25D241KM	20	32	5.7	28	1.20±0.05	10.0±1.0	1.7 ~ 3.6	35
SFV25D271KM	20	32	5.9	28	1.20±0.05	10.0±1.0	1.8 ~ 3.8	35
SFV25D301KM	20	32	5.7	28	1.20±0.05	10.0±1.0	1.6 ~ 3.6	35
SFV25D331KM	20	32	5.9	28	1.20±0.05	10.0±1.0	1.8 ~ 3.8	35
SFV25D361KM	20	32	6.5	28	1.20±0.05	10.0±1.0	1.9 ~ 3.9	35
SFV25D391KM	20	32	6.0	28	1.20±0.05	10.0±1.0	2.1 ~ 4.1	35
SFV25D431KM	20	32	6.2	28	1.20±0.05	10.0±1.0	2.2 ~ 4.2	35
SFV25D471KM	20	32	6.4	28	1.20±0.05	10.0±1.0	2.4 ~ 4.4	35
SFV25D511KM	20	32	6.6	28	1.20±0.05	10.0±1.0	2.6 ~ 4.6	35
SFV25D561KM	20	32	6.8	28	1.20±0.05	10.0±1.0	2.9 ~ 4.9	35
SFV25D621KM	20	32	7.0	28	1.20±0.05	10.0±1.0	3.2 ~ 5.2	35
SFV25D681KM	20	32	8.5	28	1.20±0.05	10.0±1.0	3.4 ~ 5.4	35
SFV25D751KM	20	32	8.9	28	1.20±0.05	10.0±1.0	3.8 ~ 5.8	35
SFV25D821KM	20	32	9.4	28	1.20±0.05	10.0±1.0	4.1 ~ 6.1	35
SFV25D911KM	20	32	9.9	28	1.20±0.05	10.0±1.0	4.5 ~ 6.5	35
SFV25D102KM	20	32	10.5	28	1.20±0.05	10.0±1.0	5.0 ~ 7.0	35
SFV25D112KM	20	32	11.1	28	1.20±0.05	10.0±1.0	5.4 ~ 7.4	35
SFV25D122KM	20	32	11.7	28	1.20±0.05	10.0±1.0	5.9 ~ 7.9	35

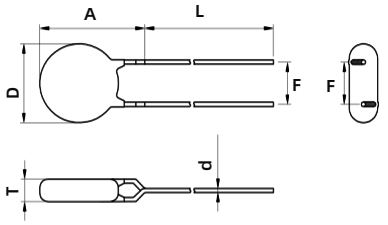




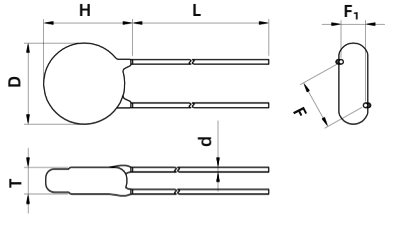
Straight Lead (A)



Outward Crimp (C)



Inline Crimp (D)



Little Straight Lead (I)

Note:
The above data is for reference only.

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Part Numbering System

SFV 25 D 471 - K M K A BUL - 001

Other Options

***Packaging & Lead Length**
BUL: Bulk + Standard Lead Length (Normal L28)
C35: Bulk + Cut to 3.5 mm
(Range:2.5 mm to 6 mm)
L30: Bulk + Special Lead Length 30 mm
(28 mm to 32 mm)
(0/1)AB: Taping + Box (Hole Pitch 12.7 mm)
(0/1)EB: Taping + Box (Hole Pitch 15.0 mm)
(0/1)AR: Taping + Reel (Hole Pitch 12.7 mm)
(0/1)ER: Taping + Reel (Hole Pitch 15.0 mm)
Note:0/1 Means Product Position
0: In Middle of Two Holes; 1: Across the Hole

Lead Types
A: Straight Lead
C: Outward Crimp Lead
D: Inline Crimp Lead
I: Little Straight Lead

Surge Level
K: Standard Type

Operating Temp.
M: Epoxy Coating 125 °C

Voltage Tolerance
K: ±10%
J: ±5%
S: Special Tolerance

Nominal Varistor Voltage
220: 22×10^{0} = 22 V
471: 47×10^{1} = 470 V
122: 12×10^{2} = 1200 V

Disk Shape
D: Round

Bare Disk Dimension
25: 25 mm

Product Category
SETfuse Varistor

Reminder:
Part numbering system in the datasheet is only for selecting correct parameter and product features. Before placing order, please contact us for specifications and use the part number and product code in the specifications to place order to ensure the part is correct. Product code is the unique indentification.

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Specification

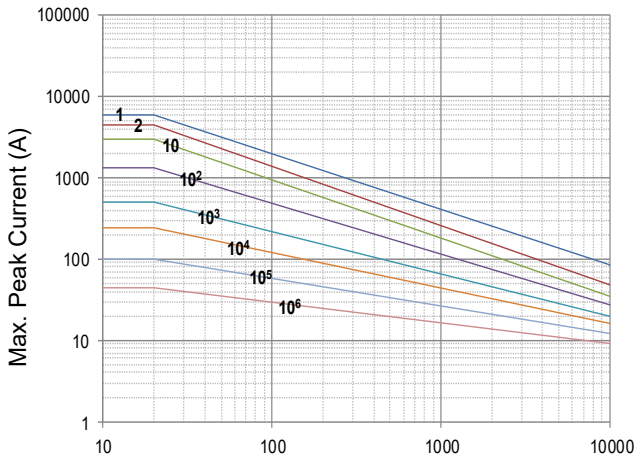
Model	Max. Continuous Operating Voltage		Varistor Voltage @1 mA DC		Clamping Voltage (Max.)		Max. Discharge Current (8/20 μs)		Max. Energy (10/1000 μs)	Typical Capacitance (For reference only) @1 kHz	Agency Information	
	VAC	VDC	Min.	Max.	V_C	I_P	I_n	I_{max}	(J)	(pF)	TUV	CQC
	(V)	(V)	(V)	(V)	(V)	(A)	(kA)	(kA)				
SFV25D470KM	30	38	42	52	93	30	3	6	50	11500	●	●
SFV25D560KM	35	45	50	62	110	30	3	6	60	10500	●	●
SFV25D680KM	40	56	61	75	135	30	3	6	70	9050	●	●
SFV25D820KM	50	65	74	90	135	150	10	20	80	7700	●	●
SFV25D101KM	60	85	90	110	165	150	10	20	100	6300	●	●
SFV25D121KM	75	100	108	132	200	150	10	20	120	5200	●	●
SFV25D151KM	95	125	135	165	250	150	10	20	160	4300	●	●
SFV25D181KM	115	150	162	198	300	150	10	20	175	3500	●	●
SFV25D201KM	130	170	180	220	340	150	10	20	190	3200	●	●
SFV25D221KM	140	180	198	242	360	150	10	20	200	2900	●	●
SFV25D241KM	150	200	216	264	395	150	10	20	220	2650	●	●
SFV25D271KM	175	225	243	297	455	150	10	20	255	2400	●	●
SFV25D301KM	190	250	270	330	500	150	10	20	275	2100	●	●
SFV25D331KM	210	275	297	363	550	150	10	20	300	1900	●	●
SFV25D361KM	230	300	324	396	595	150	10	20	330	1750	●	●
SFV25D391KM	250	320	351	429	650	150	10	20	360	1600	●	●
SFV25D431KM	275	350	387	473	710	150	10	20	380	1500	●	●
SFV25D471KM	300	385	423	517	775	150	10	20	400	1400	●	●
SFV25D511KM	320	415	459	561	845	150	10	20	420	1250	●	●
SFV25D561KM	350	460	504	616	925	150	10	20	440	1150	●	●
SFV25D621KM	385	505	558	682	1025	150	10	20	450	1050	●	●
SFV25D681KM	420	560	612	748	1120	150	10	20	460	950	●	●
SFV25D751KM	460	615	675	825	1240	150	10	20	510	850	●	●
SFV25D821KM	510	670	738	902	1355	150	10	20	520	830	●	●
SFV25D911KM	550	745	819	1001	1500	150	10	20	620	730	●	●
SFV25D102KM	625	825	900	1100	1650	150	10	20	690	660	●	●
SFV25D112KM	680	895	990	1210	1815	150	10	20	760	600	●	●
SFV25D122KM	750	990	1080	1320	1980	150	10	20	820	530	●	●

●: Approved ○: Unauthorized ● RoHS & REACH Compliant

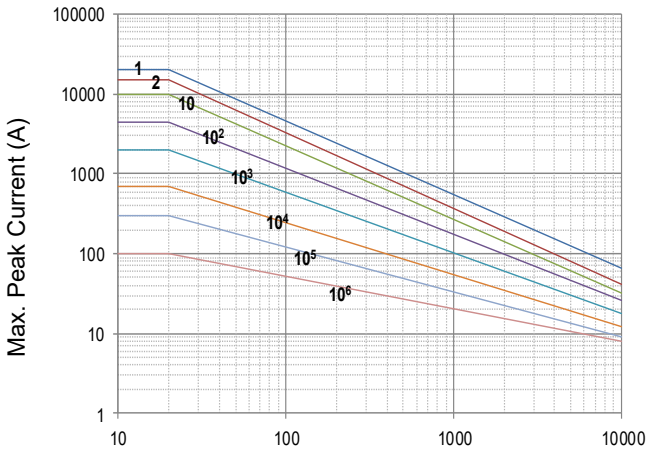
All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Performance Curve (For reference only)

- Max. Peak Current Derating Curves



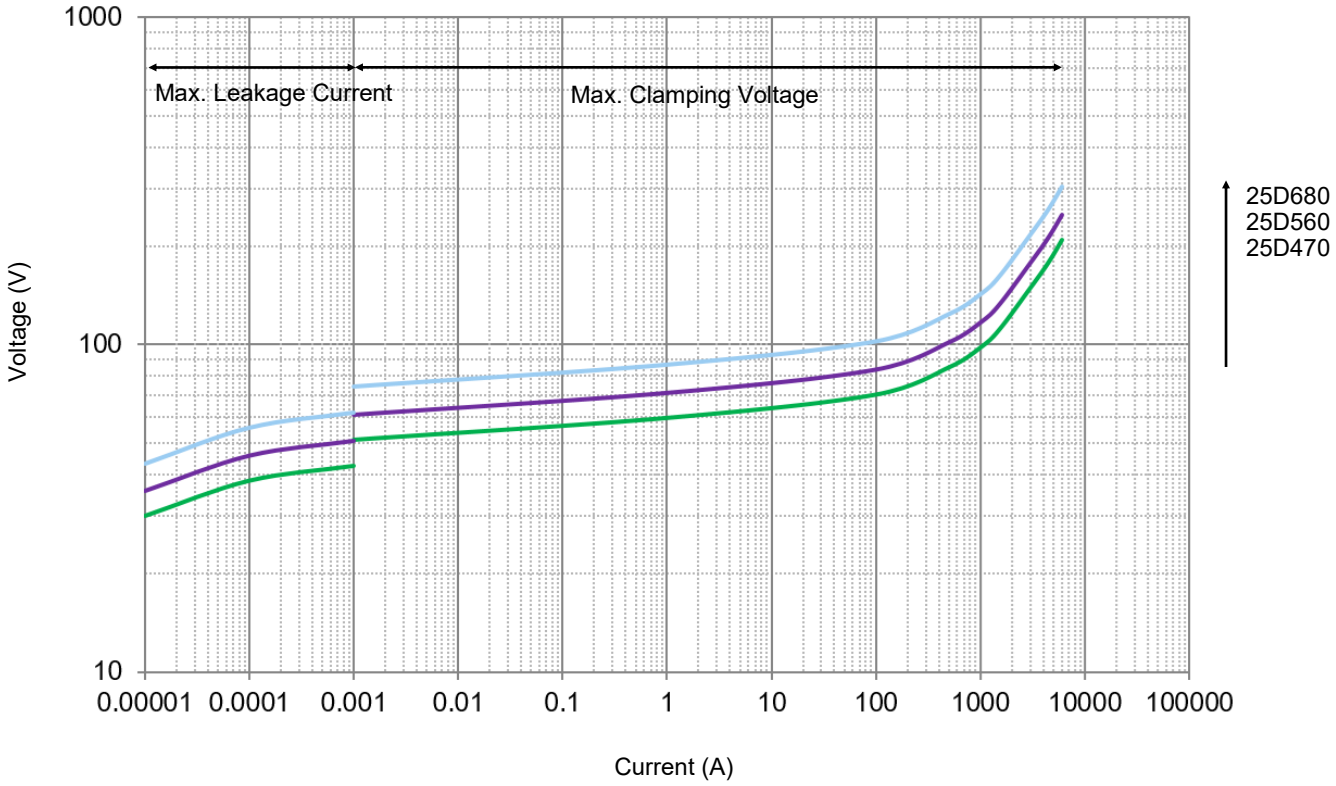
Impulse Duration (μs)
SFV25D470KM to SFV25D680KM



Impulse Duration (μs)
SFV25D820KM to SFV25D122KM

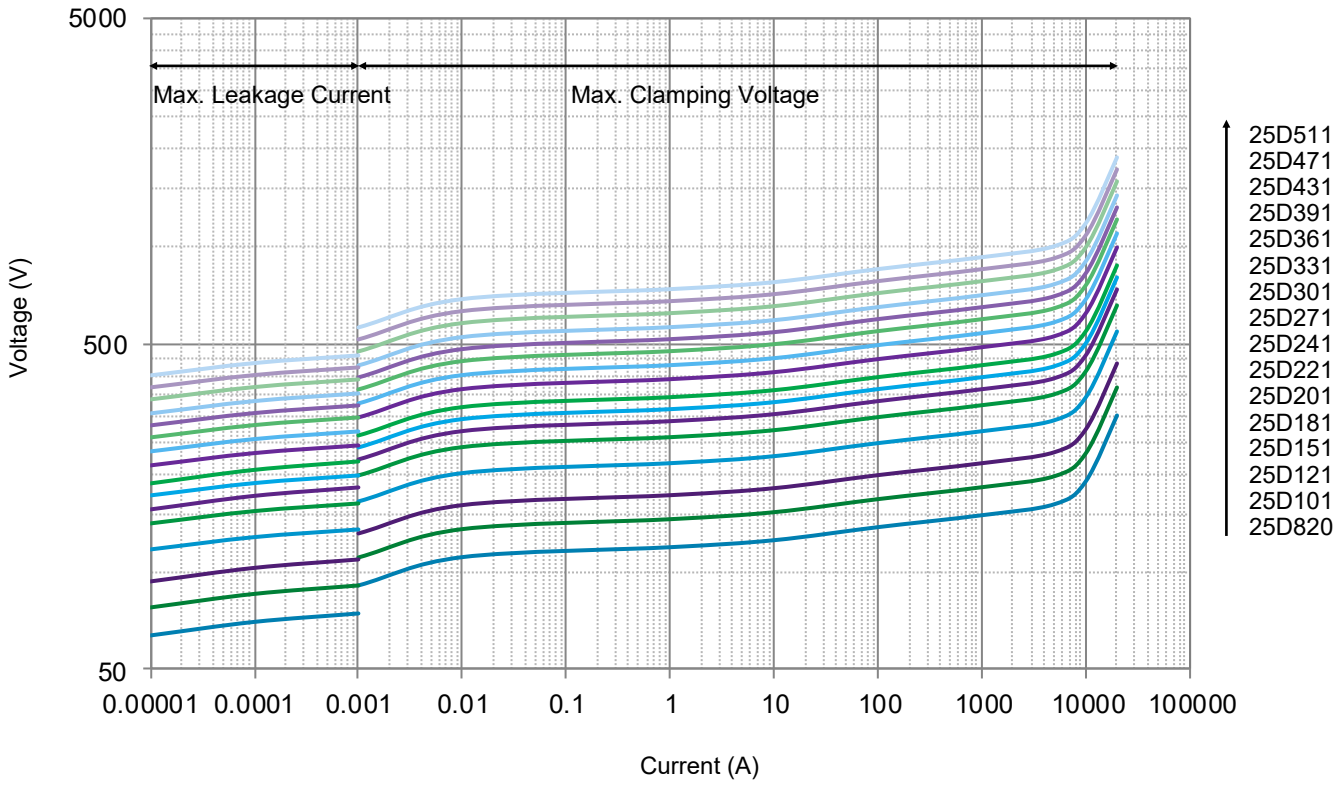
Note: 1, 2, 10, 10^2, 10^3, 10^4, 10^5, 10^6 Stand for Repetitions.

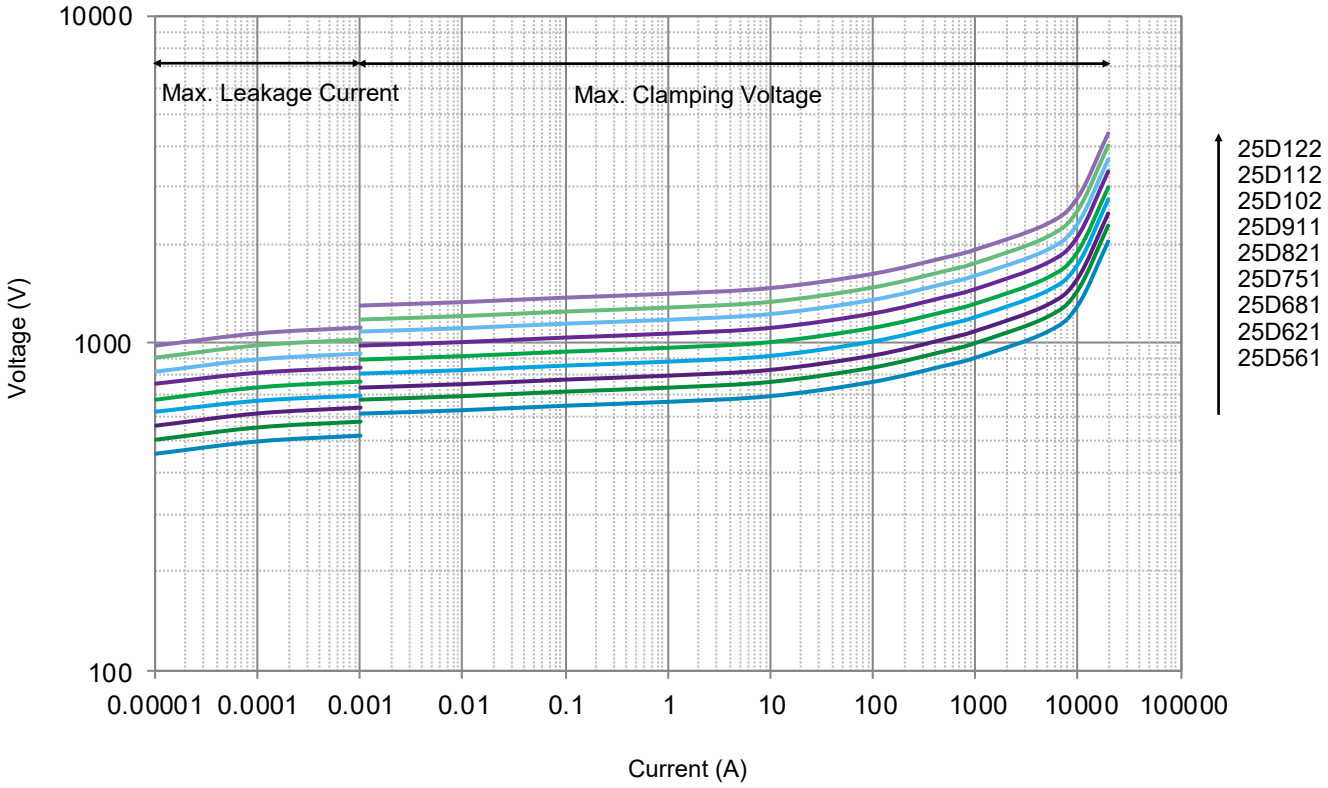
- Voltage-Current Characteristic Curves



All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

- Voltage-Current Characteristic Curves





All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

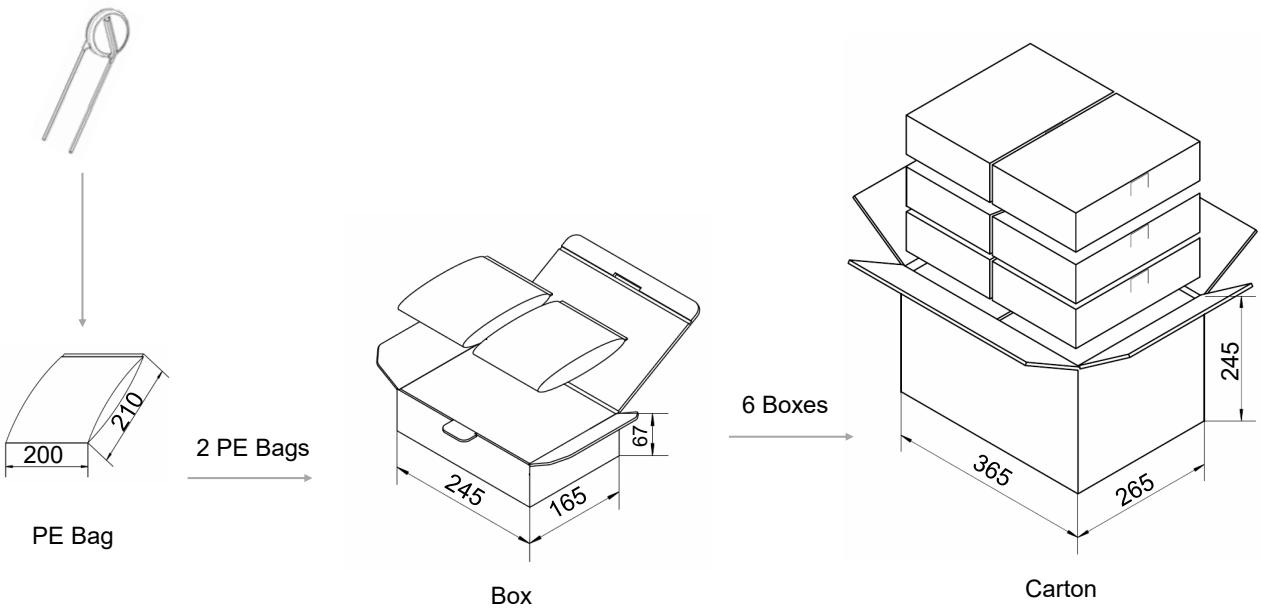
Packaging Information

- Bulk Packaging (Code: BUL)
- Bulk Packaging Quantity & Weight.

Series	Nominal Varistor Voltage	PE Bag	Box	Carton	G. W / Carton (365 × 265 × 245)
SFV25D M Series	(V)	(PCS)	(PCS)	(PCS)	(kg)±10%
	470 ~ 621	100	200	1200	7 ~ 15
	681 ~ 122	80	160	960	13 ~ 21

Note:
Other lead length packaging information, please contact SETsafe | SETfuse.

All Dimensions in mm



All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Installation

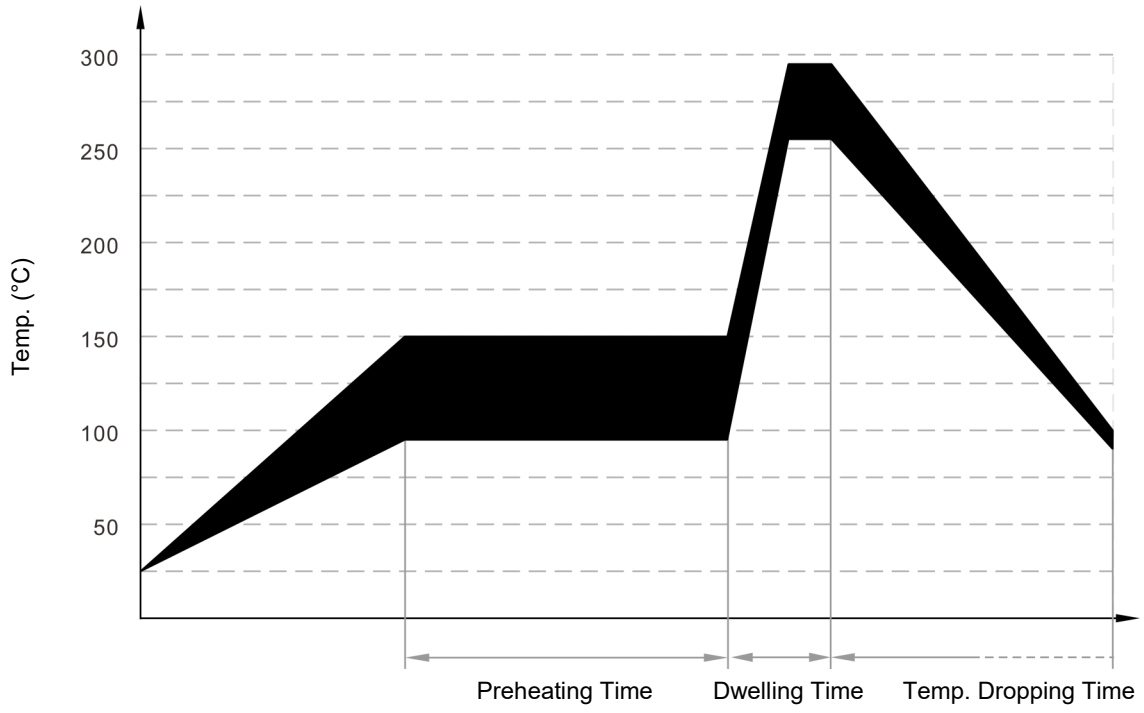
Mechanical Stress

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

Soldering Parameters

Wave Soldering Parameters

The wave soldering parameters are for reference only. When MOV is for practice use, some related validation is recommended.



Wave Soldering Curve

Item	Temp. (°C)	Time (s)
Preheating	90 to 150	<150
Dwelling	255 to 290	3 to 10

Recommended Hand-Soldering Parameters

Item	Condition
Temp. of Solder Head	350 °C (max.)
Soldering Time	4 seconds (max.)

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Glossary

Item	Description
V_N	**Nominal Varistor Voltage** Voltage, at specified D.C. current used as a reference point in the component characteristics. — (GB 18802.331) — (IEC 61051-1)
I_L	**Leakage Current** Measuring at 75% of varistor voltage. — (GB/T 10193) — (IEC 61051-1)
UCT	**Upper Category Temp.** Max. ambient temp. for which a varistor has been designed to operate continuously. — (GB/T 10193) — (IEC 61051-1)
LCT	**Lower Category Temp.** Minimum ambient temp. at which a varistor has been designed to operate continuously. — (GB/T 10193) — (IEC 61051-1)
Max. Peak Current	**Max. Peak Current** Max. current per pulse, which may be passed by a varistor at an ambient temp. of 25 °C, for a given number of pulses. — (GB/T 10193) — (IEC 61051-1)
V_C	**Clamping Voltage** Peak voltage developed across the varistor terminations under standard atmospheric conditions, when passing an 8/20 μs class current pulse. — (GB 18802.331) — (IEC 61051-1)
Voltage Proof	**Voltage Proof** 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). — (GB/T 10193) — (IEC 61051-1)
C_V	**Capacitance** Capacitance across the MOV measured at a specified frequency and voltage. — (GB 18802.331) — (IEC 61051-1)
V_{ac}	**Max. Continuous a.c. Voltage** 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. — (GB/T 10193) — (IEC 61051-1)
V_{dc}	**Max. Continuous d.c. Voltage** 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. — (GB/T 10193) — (IEC 61051-1)
I_{max}	**Max. Discharge Current** Crest value of a current through the SPD having an 8/20 μs waveshape and magnitude according to the manufacturers specification. I_{max} is equal to or greater than I_n. — (GB 18802.1) — (IEC 61643-11)

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

ATTENTION

Usage

1. Varistor must operated in the specified ambient temp.
2. Do not clean the varistor with strong polar solvent such as ketone, esters, benzene and halogenated hydrocarbon.
3. Please do not apply severe vibration, shock or pressure to MOV.
4. 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.

Replacement

If varistor is visually damaged,please replace it.

Storage

1. Storage Temp. Range: (-40 to +125) °C.
2. Relative Humidity : ≤75% RH.
3. Altitude: <2000 m.
4. 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.

Environmental Conditions

1. Varistor should neither be exposed to the open air, nor direct sunshine.
2. Varistor should avoid rain, water vapor or other condition of high temp. and high humidity.
3. Varistor should avoid sand dust, salt spray, or other harmful gases.

Max. Typical Capacitance of Varistor

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

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Metal Oxide Varistor (MOV) Feature & Model List Overview

Nominal Operating Voltage U_n (V) AC	Nominal Operating Voltage U_n (V) DC	Maximum Peak Current (8/20 μs) (kA) 0.5	1	1.75	2	3	3.5	6	10	20	70	Maximum Continuous Operating Voltage U_n (V) AC	DC	Page
480V	500V	○	○	○	○	○	SFV10D122K(T)	SFV14D122K(T)	SFV20D122K(T)	SFV25D122K(T)	SFV53D122K	750	990	
		○	○	○	○	○	SFV10D112K(T)	SFV14D112K(T)	SFV20D112K(T)	SFV25D112K(T)	SFV53D112K	680	895	
		○	○	○	○	○	SFV10D102K(T)	SFV14D102K(T)	SFV20D102K(T)	SFV25D102K(T)	SFV53D102K	625	825	
415V		○	○	○	○	○	SFV10D911K(T)	SFV14D911K(T)	SFV20D911K(T)	SFV25D911K(T)	SFV53D911K	550	745	
380V		○	○	SFV7D821K(T)	○	○	SFV10D821K(T)	SFV14D821K(T)	SFV20D821K(T)	SFV25D821K(T)	SFV53D821K	510	670	
		○	○	SFV7D751K(T)	○	○	SFV10D751K(T)	SFV14D751K(T)	SFV20D751K(T)	SFV25D751K(T)	SFV53D751K	460	615	
100V - 240V		○	○	SFV7D681K(T)	○	○	SFV10D681K(T)	SFV14D681K(T)	SFV20D681K(T)	SFV25D681K(T)	SFV53D681K	420	560	
		○	○	SFV7D621K(T)	○	○	SFV10D621K(T)	SFV14D621K(T)	SFV20D621K(T)	SFV25D621K(T)	SFV53D621K	385	505	
		○	○	SFV7D561K(T)	○	○	SFV10D561K(T)	SFV14D561K(T)	SFV20D561K(T)	SFV25D561K(T)	SFV53D561K	350	460	
		○	○	SFV7D511K(T)	○	○	SFV10D511K(T)	SFV14D511K(T)	SFV20D511K(T)	SFV25D511K(T)	SFV53D511K	320	415	
100V - 220V		○	○	SFV7D471K(T)	○	○	SFV10D471K(T)	SFV14D471K(T)	SFV20D471K(T)	SFV25D471K(T)	SFV53D471K	300	385	
		○	○	SFV7D431K(T)	○	○	SFV10D431K(T)	SFV14D431K(T)	SFV20D431K(T)	SFV25D431K(T)	SFV53D431K	275	350	
100V - 120V	250V	○	○	SFV7D391K(T)	○	○	SFV10D391K(T)	SFV14D391K(T)	SFV20D391K(T)	SFV25D391K(T)	SFV53D391K	250	320	
		○	○	SFV7D361K(T)	○	○	SFV10D361K(T)	SFV14D361K(T)	SFV20D361K(T)	SFV25D361K(T)	SFV53D361K	230	300	
		○	○	SFV7D331K(T)	○	○	SFV10D331K(T)	SFV14D331K(T)	SFV20D331K(T)	SFV25D331K(T)	SFV53D331K	210	275	
		○	○	SFV7D301K(T)	○	○	SFV10D301K(T)	SFV14D301K(T)	SFV20D301K(T)	SFV25D301K(T)	SFV53D301K	190	250	
100V	125V	○	○	SFV7D271K(T)	○	○	SFV10D271K(T)	SFV14D271K(T)	SFV20D271K(T)	SFV25D271K(T)	SFV53D271K	175	225	
		○	○	SFV7D241K(T)	○	○	SFV10D241K(T)	SFV14D241K(T)	SFV20D241K(T)	SFV25D241K(T)	SFV53D241K	150	200	
		○	○	SFV7D221K(T)	○	○	SFV10D221K(T)	SFV14D221K(T)	SFV20D221K(T)	SFV25D221K(T)	SFV53D221K	140	180	
		○	○	SFV7D201K(T)	○	○	SFV10D201K(T)	SFV14D201K(T)	SFV20D201K(T)	SFV25D201K(T)	SFV53D201K	130	170	
		○	○	SFV7D181K(T)	○	○	SFV10D181K(T)	SFV14D181K(T)	SFV20D181K(T)	SFV25D181K(T)	SFV53D181K	115	150	
	48V	○	○	SFV7D151K(T)	○	○	SFV10D151K(T)	SFV14D151K(T)	SFV20D151K(T)	SFV25D151K(T)	SFV53D151K	95	125	
		○	○	SFV7D121K(T)	○	○	SFV10D121K(T)	SFV14D121K(T)	SFV20D121K(T)	SFV25D121K(T)	SFV53D121K	75	100	
		○	○	SFV7D101K(T)	○	○	SFV10D101K(T)	SFV14D101K(T)	SFV20D101K(T)	SFV25D101K(T)	SFV53D101K	60	85	
		○	○	SFV7D820K(T)	○	○	SFV10D820K(T)	SFV14D820K(T)	SFV20D820K(T)	SFV25D820K(T)	SFV53D820K	50	65	
	24V	SFV7D680K(T)	SFV10D680K(T)	○	SFV14D680K(T)	SFV20D680K(T)		SFV25D680K(T)	○	○	○	40	56	
		SFV7D560K(T)	SFV10D560K(T)	○	SFV14D560K(T)	SFV20D560K(T)		SFV25D560K(T)	○	○	○	35	45	
	12V	SFV7D470K(T)	SFV10D470K(T)	○	SFV14D470K(T)	SFV20D470K(T)		SFV25D470K(T)	○	○	○	30	38	
		SFV7D390K(T)	SFV10D390K(T)	○	SFV14D390K(T)	SFV20D390K(T)		SFV25D390K(T)	○	○	○	25	31	
		SFV7D330K(T)	SFV10D330K(T)	○	SFV14D330K(T)	SFV20D330K(T)		SFV25D330K(T)	○	○	○	20	26	
		SFV7D270K(T)	SFV10D270K(T)	○	SFV14D270K(T)	SFV20D270K(T)		SFV25D270K(T)	○	○	○	17	22	
		SFV7D220K(T)	SFV10D220K(T)	○	SFV14D220K(T)	SFV20D220K(T)		SFV25D220K(T)	○	○	○	14	18	

+86-592-571-5838 www.SETfuse.com www.SETsafe.com E-mail : sales@SETfuse.com

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Metal Oxide Varistor (MOV) Feature & Model List Overview

Nominal Operating Voltage U_n (V) AC	Nominal Operating Voltage U_n (V) DC	1.75	3.5	6	10	20	Maximum Continuous Operating Voltage U_n (V) AC	Maximum Continuous Operating Voltage U_n (V) DC	Page
480V	500V	○	SFV10D122KM	SFV14D122KM	SFV20D122KM	SFV25D122KM	750	990	
		○	SFV10D112KM	SFV14D112KM	SFV20D112KM	SFV25D112KM	680	895	
		○	SFV10D102KM	SFV14D102KM	SFV20D102KM	SFV25D102KM	625	825	
415V		○	SFV10D911KM	SFV14D911KM	SFV20D911KM	SFV25D911KM	550	745	
380V		SFV7D821KM	SFV10D821KM	SFV14D821KM	SFV20D821KM	SFV25D821KM	510	670	
		SFV7D751KM	SFV10D751KM	SFV14D751KM	SFV20D751KM	SFV25D751KM	460	615	
100V - 240V		SFV7D681KM	SFV10D681KM	SFV14D681KM	SFV20D681KM	SFV25D681KM	420	560	
		SFV7D621KM	SFV10D621KM	SFV14D621KM	SFV20D621KM	SFV25D621KM	385	505	
		SFV7D561KM	SFV10D561KM	SFV14D561KM	SFV20D561KM	SFV25D561KM	350	460	
		SFV7D511KM	SFV10D511KM	SFV14D511KM	SFV20D511KM	SFV25D511KM	320	415	
100V - 220V		SFV7D471KM	SFV10D471KM	SFV14D471KM	SFV20D471KM	SFV25D471KM	300	385	
		SFV7D431KM	SFV10D431KM	SFV14D431KM	SFV20D431KM	SFV25D431KM	275	350	
100V - 120V	250V	SFV7D391KM	SFV10D391KM	SFV14D391KM	SFV20D391KM	SFV25D391KM	250	320	
		SFV7D361KM	SFV10D361KM	SFV14D361KM	SFV20D361KM	SFV25D361KM	230	300	
		SFV7D331KM	SFV10D331KM	SFV14D331KM	SFV20D331KM	SFV25D331KM	210	275	
	125V	SFV7D301KM	SFV10D301KM	SFV14D301KM	SFV20D301KM	SFV25D301KM	190	250	
100V		SFV7D271KM	SFV10D271KM	SFV14D271KM	SFV20D271KM	SFV25D271KM	175	225	
		SFV7D241KM	SFV10D241KM	SFV14D241KM	SFV20D241KM	SFV25D241KM	150	200	
		SFV7D221KM	SFV10D221KM	SFV14D221KM	SFV20D221KM	SFV25D221KM	140	180	
		SFV7D201KM	SFV10D201KM	SFV14D201KM	SFV20D201KM	SFV25D201KM	130	170	
		SFV7D181KM	SFV10D181KM	SFV14D181KM	SFV20D181KM	SFV25D181KM	115	150	
	48V	SFV7D151KM	SFV10D151KM	SFV14D151KM	SFV20D151KM	SFV25D151KM	95	125	
		SFV7D121KM	SFV10D121KM	SFV14D121KM	SFV20D121KM	SFV25D121KM	75	100	
		SFV7D101KM	SFV10D101KM	SFV14D101KM	SFV20D101KM	SFV25D101KM	60	85	
		SFV7D820KM	SFV10D820KM	SFV14D820KM	SFV20D820KM	SFV25D820KM	50	65	
	24V	○	○	SFV25D680KM	○	○	40	56	
		○	○	SFV25D560KM	○	○	35	45	
	12V	○	○	SFV25D470KM	○	○	30	38	
		○	○	○	○	○	25	31	
		○	○	○	○	○	20	26	
		○	○	○	○	○	17	22	
		○	○	○	○	○	14	18	

Maximum Peak Current (8/20 μs) (kA)

Model

+86-592-571-5838 www.SETfuse.com www.SETsafe.com E-mail : sales@SETfuse.com

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1

Metal Oxide Varistor (MOV) Feature & Model List Overview

Nominal Operating Voltage U_n (V) AC	DC	2	3	5	6	8	10	15	20	25	40	Maximum Continuous Operating Voltage U_n (V) AC	DC	Page
480V	500V	○	○	○	○	○	○	SFV20S122K	○	SFV25S122K	SFV34S122K	750	990	
		○	○	○	○	○	○	SFV20S112K	○	SFV25S112K	SFV34S112K	680	895	
		○	○	○	○	○	○	SFV20S102K	○	SFV25S102K	SFV34S102K	625	825	
415V		○	○	○	○	○	○	SFV20S911K	○	SFV25S911K	SFV34S911K	550	745	
380V		○	○	SFV10S821K	○	○	SFV15S821K	SFV20S821K	○	SFV25S821K	SFV34S821K	510	670	
		○	○	SFV10S751K	○	○	SFV15S751K	SFV20S751K	○	SFV25S751K	SFV34S751K	460	615	
100V - 240V		○	○	SFV10S681K	○	○	SFV15S681K	SFV20S681K	○	SFV25S681K	SFV34S681K	420	560	
		○	○	SFV10S621K	○	○	SFV15S621K	SFV20S621K	○	SFV25S621K	SFV34S621K	385	505	
		○	○	SFV10S561K	○	○	SFV15S561K	SFV20S561K	○	SFV25S561K	SFV34S561K	350	460	
		○	○	SFV10S511K	○	○	SFV15S511K	SFV20S511K	○	SFV25S511K	SFV34S511K	320	415	
100V - 220V		○	○	SFV10S471K	○	○	SFV15S471K	SFV20S471K	○	SFV25S471K	SFV34S471K	300	385	
		○	○	SFV10S431K	○	○	SFV15S431K	SFV20S431K	○	SFV25S431K	SFV34S431K	275	350	
100V - 120V	250V	○	○	SFV10S391K	○	○	SFV15S391K	SFV20S391K	○	SFV25S391K	SFV34S391K	250	320	
		○	○	SFV10S361K	○	○	SFV15S361K	SFV20S361K	○	SFV25S361K	SFV34S361K	230	300	
		○	○	SFV10S331K	○	○	SFV15S331K	SFV20S331K	○	SFV25S331K	SFV34S331K	210	275	
	125V	○	○	SFV10S301K	○	○	SFV15S301K	SFV20S301K	○	SFV25S301K	SFV34S301K	190	250	
		○	○	SFV10S271K	○	○	SFV15S271K	SFV20S271K	○	SFV25S271K	SFV34S271K	175	225	
		○	○	SFV10S241K	○	○	SFV15S241K	SFV20S241K	○	SFV25S241K	SFV34S241K	150	200	
100V		○	○	SFV10S221K	○	○	SFV15S221K	SFV20S221K	○	SFV25S221K	SFV34S221K	140	180	
		○	○	SFV10S201K	○	○	SFV15S201K	SFV20S201K	○	SFV25S201K	SFV34S201K	130	170	
		○	○	SFV10S181K	○	○	SFV15S181K	SFV20S181K	○	SFV25S181K	SFV34S181K	115	150	
		○	○	SFV10S151K	○	○	SFV15S151K	SFV20S151K	○	SFV25S151K	SFV34S151K	95	125	
	48V	○	SFV10S121K	○	○	○	SFV15S121K	SFV20S121K	○	SFV25S121K	SFV34S121K	75	100	
		○	SFV10S101K	○	○	○	SFV15S101K	SFV20S101K	○	SFV25S101K	SFV34S101K	60	85	
		○	SFV10S820K	○	○	○	SFV15S820K	SFV20S820K	○	SFV25S820K	SFV34S820K	50	65	
	24V	SFV10S680K	SFV15S680K	SFV20S680K	○	○	SFV25S680K	○	SFV34S680K	○	○	40	56	
		SFV10S560K	SFV15S560K	SFV20S560K	○	○	SFV25S560K	○	SFV34S560K	○	○	35	45	
		SFV10S470K	SFV15S470K	SFV20S470K	○	SFV25S470K	○	○	SFV34S470K	○	○	30	38	
	12V	SFV10S390K	SFV15S390K SFV20S390K	○	○	SFV25S390K	○	○	○	○	○	25	31	
		SFV10S330K	SFV15S330K SFV20S330K	○	○	SFV25S330K	○	○	○	○	○	20	26	
		SFV10S270K	SFV15S270K SFV20S270K	○	SFV25S270K	○	○	○	○	○	○	17	22	
		SFV10S220K	SFV15S220K SFV20S220K SFV25S220K	○	○	○	○	○	○	○	○	14	18	

Maximum Peak Current (8/20 μs) (kA)

Model

+86-592-571-5838 www.SETfuse.com www.SETsafe.com E-mail : sales@SETfuse.com

All Rights Reserved by Xiamen SET Electronics Co., Ltd. 2024-2026 V1.1