

UL VDE Metal Oxide Mov 10D511K Varistor Epoxy Resin Film 510V For Power Supply

Basic Information

- Place of Origin:
- Brand Name:
 - SOCAY UL,VDE,REACH,RoHS,ISO 10D511k

5-8 work days

Shenzhen, Guangdong, China

- Certification:Model Number:
- Minimum Order Quantity: 100PCS
- Price: Negotiable
- Delivery Time:



Product Specification

• Item:	MOV Varistor
 Package Size: 	Ф25mm
• VAC:	320V
• VDC:	415V
 Varistor Voltage: 	510(459~561)V
• IP:	25A
• VC:	845V
 Rated Power: 	0.4W
 Typ. Capacitance: 	200pF
 Withstanding Surge Current: 	2.5KA (1 Time)
• Highlight:	UL Mov 10D511K, Mov 10D511K 510V, 10D511K Varistor

Product Description

UL VDE Varistor Varistor Varistor Metal Oxide 10D511K Epoxy Resin Film Varistor 510V For Power Supply

DATASHEET: 25D Series_v2306.1.pdf

Type Number		Maximu m Allowabl e voltage		Varistor Voltage	Maximu m Clampin g Voltage					Energy (10/1000 µs)	Capacita nce
Standa rd	High Surge	V _{AC} (V)	V _{DC} (V)	V 1mA (V)	I _P (A)		Stand ard (A)	(A)	(W)	(J)	@1KHZ (pF)
	055404			100/00			1 Time	1 Time			
к	25D101 KJ	60	85	100(90- 110)	150	165	10000	20000	1.4	100	6300
25D201 K	25D201 KJ	130	170	200(185- 225)	150	330	15000	20000	1.0	215	2000
25D221 K	25D221 KJ	140	180	220(198- 242)	150	360	15000	20000	1.0	235	1800
25D241 K	25D241 KJ	150	200	240(216- 264)	150	395	15000	20000	1.0	245	1650
25D271 K	25D271 KJ	175	225	270(243- 297)	150	455	15000	20000	1.0	260	1500
25D301 K	25D301 KJ	190	250	300(270- 330)	150	505	15000	20000	1.0	275	1300
25D331 K	25D331 KJ	210	275	330(297- 363)	150	550	15000	20000	1.0	295	1200
25D361 K	25D361 KJ	230	300	360(324- 396)	150	595	15000	20000	1.0	305	1100
25D391 K	25D391 KJ	250	320	390(351- 429)	150	650	15000	20000	1.0	335	1000
25D431 K	25D431 KJ	275	350	430(387- 473)	150	710	15000	20000	1.0	365	930
25D471 K	25D471 KJ	300	385	470(423- 517)	150	775	15000	20000	1.0	390	850
25D511 K	25D511 KJ	320	415	510(459- 561)	150	845	15000	20000	1.0	440	780
25D561 K	25D561 KJ	350	460	560(504- 616)	150		15000	20000	1.0	490	715
25D621 K	25D621 KJ	385	505	620(558- 682)	150	102 5	15000	20000	1.0	540	650
25D681 K	25D681 KJ	420	560	680(612- 748)	150	112 0	15000	20000	1.0	570	600
25D751 K	25D751 KJ	460	615	750(675- 825)	150	124 0	15000	20000	1.0	590	530
25D781 K	25D781 KJ	485	640	780(702- 858)	150	129 0	15000	20000	1.0	620	510
к	25D821 KJ	510	0/0	820(738- 902)	150	135 5	15000	20000	1.0	655	500
25D911 K	25D911 KJ	550	745	910(819- 1001)	150	150 0	15000	20000	1.0	726	440
25D102 K	25D102 KJ	625	825	1000(900- 1100)	150	165 0	15000	20000	1.0	685	650
25D112 K	25D112 KJ	680	895	1100(990- 1210)	150	181 5	15000	20000	1.0	770	600
25D122 K	25D122 KJ	750	990	1200(1080- 1320)	150	198 0	15000	20000	1.0	770	550



About Varistor

The most used voltage limiting device is the varistor MOV/MLV, which is mainly made of zinc oxide and a variety of trace metal oxides, which are mixed and moulded.

Description:

The 25D series radial leaded varistors provides an ideal circuit protection solution for lower DC voltage applications by offering higher surge ratings than ever before available in such small discs.

The maximum peak surge current rating can reach up to 20KA (8/20 µs pulse) to protect against high peak surges, including indirect lightning strike interference, system switching transients and abnormal fast transients from the power source.

Selection of varistor:

When selecting a varistor, the specific conditions of the circuit must be considered. Generally, the following principles should be followed:

1. Selection of varistor voltage V1mA

According to the selection of the power supply voltage, the power supply voltage continuously applied to both ends of the varistor must not exceed the specified

The "maximum continuous operating voltage" value listed in the grid. That is, the maximum DC operating voltage of the varistor must

Greater than the DC operating voltage VIN of the power line (signal line), that is, VDC>VIN; for the varistor selection of the 220V AC power supply, the fluctuation range of the grid operating voltage must be fully considered. When selecting the varistor voltage value of the varistor, the Leave enough margin. The general fluctuation range of domestic power grid is 25%. It is more appropriate to choose a varistor with a varistor voltage of 470V ~ 620V. Choosing a varistor with a higher varistor voltage can reduce the failure rate and extend the service life, but the residual voltage will slightly increase. 2. Selection of traffic flow

The nominal discharge current of the varistor should be greater than the surge current required to withstand or the maximum surge current that may occur during equipment operation. The nominal discharge current should be calculated based on the value of more than 10 impacts in the varistor surge life rating curve, which is about 30% of the maximum impact flow (i.e. 0.3 IP).

3. Selection of clamping voltage

The clamping voltage of the varistor must be less than the maximum voltage that the protected component or equipment can withstand (ie, safety voltage).

4. Selection of capacitor Cp

For high-frequency transmission signals, the capacitance Cp should be smaller, and vice versa

5. Internal resistance matching (Resistance Match)

The relationship between the internal resistance R ($R \ge 2\Omega$) of the protected component (line) and the transient internal resistance Rv of the varistor: $R \ge 5$ Rv; for protected components with small internal resistance, the signal transmission rate will not be affected if the signal transmission rate is not affected. Below, try to use large capacitance varistor.

Applications:

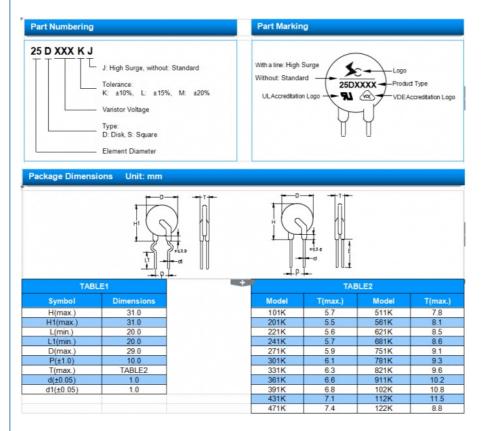
u Transistor, diode, IC, thyristor or triac semiconductor protection

- u Surge protection in consumer electronics
- u Surge protection in industrial electronics
- u Surge protection in electronic home appliances, gas and petroleum appliances
- u Relay and electromagnetic valve surge absorption

Operating Temperature	-40 ~ +85
Storage Temperature	-40 ~ +85
Working Surface Temperature	+115
Insulation Resistance	> 100MΩ
Coating (Epoxy Resin)	Flame-Retardant to UL 94 V-0

Coating	Epoxy Resin	
Lead Wire	The Copper Wire	
Electrode	Silver Solder	
Disk	Zinc Oxide	

Dimension	Part Number	Bag	Small Carton	Carton
25D	25DXXXXX	100 PCS	1000 PCS	2000 PCS



1.FAQ

Q1. Can I have a sample order ?

A: Yes, we welcome sample order to test and check quality. Mixed samples are acceptable.

Q2. What about the lead time?

A:Sample needs 1 days, mass production time needs 1-2 weeks for order quantity more than

Q3. Do you have any MOQ ?

A: MOQ depend on the type of product, 1pc for sample checking is available

Q4. How do you ship the goods and how long does it take to arrive?

A: We usually ship by DHL, UPS, FedEx or TNT. It usually takes 3-5 days to arrive. Airline and sea shipping also optional. Q5. How to proceed an order ?

A: Firstly let us know your requirements or application.

Secondly We quote according to your requirements or our suggestions.

Thirdly customer confirms the samples and places deposit for formal order.

Fourthly We arrange the production.



(•+8618126201429	sylvia@socay.com	e socaydiode.com		
4/F, Block C, HeHengXing Science & Technology Park, 19 MinQing Road, LongHua District, Shenzhen City, GuangDong Province, China					