



AC510V MOV Zinc Oxide Varistor 25mm DC670V Suitable For Inverter Power

Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: 25D821K
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: Export Package / Negotiation
- Delivery Time: Negotiation
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 24 million per year



Product Specification

- Features: Fast Response Time
- Application: Power Inverter / New Energy
- Material: Zinc Oxide
- Max. Allowable Voltage: AC : 5100V DC: 670 V)
- Varistor Voltage: 738-902(V)
- TRated Wattage: 1.2 (W)
- Max. Clamping Voltage: IP: 150(A) VC: 1355(V)
- Withstanding Surge Current: 1time:15000(A) 2time:18000(A)
- Max. Energy: 460(J)
- Typical Capacitance: 750(pf)
- Nonlinear Exponent(α): ≥ 40
- Temperature Coefficient Of Varistor Voltage: $\leq \pm 0.05\%/^{\circ}\text{C MAX.}$
- Highlight: MOV zinc oxide varistor,
25mm zinc oxide varistor,

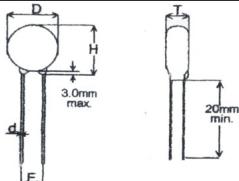


More Images



Product Description

SPECIFICATION FOR APPROVAL

SPECIFICATION		NO.	
PART NO.	25D821K	PAGE 1 OF 2	
		DATE:2023 09 07	
1.OUTLINE			
1.1	APPEARANCE	Without Any Crack, Marking Should Be Clear	
1.2	DIMENSIONS	DIMENSIONS (mm)	
		D (max)	28.0
		H (max)	32.0
		T (max)	8.7
		d(±0.02)	1.0
		E(±1.0)	10.0
2.ELETRICAL PARAMETER			
2.1	Max. Allowable Voltage	AC: 510(V) DC: 670(V)	At 1 mA DC
2.2	Varistor Voltage	738-902(V)	
2.3	Rated Wattage	1.2(W)	VO.1 mA□ V1.0 mA
2.4	Max. Clamping Voltage	IP: 150(A) VC: 1355(V)	Test Current Waveform 8/20μs
2.5	Withstanding Surge Current	1time:15000(A) 2time:18000(A)	
2.6	Max. Energy	460(J)	Test Current Waveform 10/1000μs
2.7	Typical Capacitance	750(pf)	@1KHz
2.8	Leakage Current	≤200(μA)	At 80% of Varistor Voltage
2.9	Nonlinear Exponent(α)	≥40	
2.10	Temperature Coefficient Of Varistor Voltage	≤±0.05%/°C MAX.	
2.11	Impulse Life	≤±10%(V1 mA)	Test Current Waveform 8/20μs

SPECIFICATION FOR APPROVAL

SPECIFICATION		NO.			
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		DATE: 2023 09 06			
3. Mechanical Requirements					
3.1	Tensile of Terminations	No Outstanding Damage	1Kgf, 10Sec		
3.2	Bending of Terminations	No Outstanding Damage	0.5Kgs,90°,3Times		
3.3	Vibration	No Outstanding Damage	Freq: 10-55hz Amp: 0.75 mm, 1Min		
3.4	Solderability	Min.95% of The Terminal Should Be Covered With Solder Uniformly	Solder Temp:230±5°C Immersed Time:2±0.5Sec		
3.5	Resistance of soldering Heat	V1mA /V1mA ≤±5%	Solder Temp:260±5°C Immersed Time:10±1Sec		
4 Environmental Requirements					
4.1	High Temperature Storage	V1mA /V1mA ≤±5%	Ambient Temp:125±2°C Duration: 1000h		
4.2	Low Temperature Storage	V1mA /V1mA ≤±5%	Ambient Temp:-40±2°C Duration: 1000h		
4.3	High Humidity Storage/Damp Heat	V1mA /V1mA ≤±5%	Ambient Temp:40±2°C 90-95%R.H. Duration: 1000h		
4.4	Temperature Cycle	V1mA/V1mA ≤±5%	Step	Temperature	Period
			1	-40°C	30min
			2	Room Temp	15min
			3	125°C	30min
			4	Room Temp	15min
4.5	High Temperature Load	V1mA/V1mA ≤±10%	Ambient Temp:85±2°C Duration:1000h Load:Max Allowable Voltage		
4.6	High Humidity load	V1mA/V1mA ≤±10%	Ambient Temp:125±2°C Duration:1000h Load:Max Allowable Voltage		

4.7	Operating Temperature Range	-40°C +85°C	-40°C +85°C
4.8	Storage Temperature Range	-40°C +125°C	-40°C +125°C

MOV-25D Metal Oxide Varistor A Voltage-Limiting Protection Device Connected In Parallel To The Line

"Varistor" is a resistive device with nonlinear volt-ampere characteristics. It is mainly used for voltage clamping when the circuit is subjected to overvoltage, and absorbs excess current to protect sensitive devices. The English name is "Voltage Dependent Resistor", abbreviated as "VDR", or "Varistor". The resistor material of the varistor is a semiconductor, so it is a variety of semiconductor resistors. Now widely used "zinc oxide" (ZnO) varistor, its main material is composed of divalent element zinc (Zn) and hexavalent element oxygen (O). Therefore, from the material point of view, the zinc oxide varistor is a "II-VI oxide semiconductor". In Taiwan, China, varistors are called "surge absorbers", sometimes also called "electric shock (surge) suppressors (absorbers)".

The varistor is a voltage limiting protection device. Utilizing the nonlinear characteristics of the varistor, when an overvoltage occurs between the two poles of the varistor, the varistor can clamp the voltage to a relatively fixed voltage value, thereby realizing the protection of the subsequent circuit. The main parameters of varistors are: varistor voltage, flow capacity, junction capacitance, response time, etc.

Model Number	25D 181K 390K 431K 470K 471K 511K 561K 680K 681K 821K 102K
Package	Varistors
D/C	Newest
Condition	New & Original
Lead time	Within 1 day
Unit Price	Contact us for latest price
More details	Please contact us

Applications:

Varistors may be used in many applications, including:

- Computers
- Timers
- Amplifiers
- Oscilloscopes
- Medical analysis equipment
- Street lighting
- Tuners

Competitive Advantage:

Factory supply directly

Completed certificates such as UL,VDE,SGS,etc and high quality available

Quick delivery

Best after-sales services

OEM & ODM available

Specifications:

Part Number	V _a c(V)	V _d c(V)	V _{1mA} (V)	I _p (A)	V _a c(V)	I(A)Standard	I(A)High Surge	(J)Standard	(J)High Surge	Rated power(W)	C@1KHz (pf)
25D180K(J)	11	14	18(15-21.6)	30	40	3000	4500	13	20	0.25	4500
25D220K(J)	14	18	22(19.5-26)	30	48	3000	4500	16	25	0.25	2900
25D270K(J)	17	22	27(24-31)	30	60	3000	4500	19	30	0.25	2650
25D330K(J)	20	26	33(29.5-36.5)	30	73	3000	4500	24	35	0.25	1800
25D390K(J)	25	31	39(35-43)	30	80	3000	4500	28	40	0.25	1350
25D470K(J)	30	38	47(42-52)	30	104	3000	4500	34	50	0.25	1150
25D560K(J)	35	45	56(50-62)	30	123	3000	4500	40	60	0.25	1050
25D680K(J)	40	56	68(61-75)	30	145	3000	4500	49	70	0.25	9050
25D820K(J)	50	65	82(74-90)	150	150	15000	18000	56	80	1.2	7700
25D101K(J)	60	85	100(90-110)	150	175	15000	18000	70	100	1.2	6300
25D121K(J)	75	100	120(108-132)	150	210	15000	18000	85	120	1.2	5200
25D151K(J)	95	125	150(135-165)	150	260	15000	18000	106	160	1.2	4300
25D181K(J)	115	150	180(162-198)	150	320	15000	18000	130	175	1.2	3500

25D20 1K(J)	130	170	200(180- 220)	15 0	340	15000	18000	140	190	1.2	3200
25D22 1K(J)	140	180	220(198- 242)	15 0	360	15000	18000	1155	200	1.2	2900
25D24 1K(J)	150	200	240(216- 264)	15 0	395	15000	18000	168	220	1.2	2650
25D27 1K(J)	175	225	270(243- 297)	15 0	455	15000	18000	190	255	1.2	2400
25D30 1K(J)	190	250	300(270- 330)	15 0	500	15000	18000	210	275	1.2	2100
25D33 1K(J)	210	275	330(297- 363)	15 0	550	15000	18000	228	300	1.2	1900
25D36 1K(J)	230	300	360(324- 396)	15 0	595	15000	18000	255	330	1.2	1750
25D39 1K(J)	250	320	390(351- 429)	15 0	650	15000	18000	275	360	1.2	1600
25D43 1K(J)	275	350	430(387- 473)	15 0	710	15000	18000	305	380	1.2	1500
25D47 1K(J)	300	385	470(423- 517)	15 0	775	15000	18000	350	400	1.2	1400
25D51 1K(J)	320	415	510(459- 561)	15 0	845	15000	18000	361	420	1.2	1250
25D56 1K(J)	350	460	560(504- 616)	15 0	925	15000	18000	380	440	1.2	1150
25D62 1K(J)	385	505	620(558- 682)	15 0	1025	15000	18000	396	450	1.2	950
25D68 1K(J)	420	560	680(612- 748)	15 0	1120	15000	18000	408	460	1.2	900
25D75 1K(J)	460	615	750(675- 825)	15 0	1240	15000	18000	420	510	1.2	850
25D78 1K(J)	485	640	780(702- 858)	15 0	1290	15000	18000	440	530	1.2	800
25D82 1K(J)	510	670	820(738- 902)	15 0	1355	15000	18000	460	570	1.2	750
25D91 1K(J)	550	745	910(819- 1001)	15 0	1500	15000	18000	510	620	1.2	700
25D10 2K(J)	625	825	1000(900- 1100)	15 0	1650	15000	18000	565	685	1.2	650
25D11 2K(J)	680	895	1100(990- 1210)	15 0	1815	15000	18000	620	720	1.2	600
25D12 2K(J)	750	990	1200(1080- 1320)	15 0	1980	15000	18000	631	792	1.2	550
25D14 2K(J)	880	1140	1400(1260- 1540)	15 0	2310	15000	18000	697	850	1.2	500
25D16 2K(J)	1000	1280	1600(1440- 1760)	15 0	2640	15000	18000	805	970	1.2	450
25D18 2K(J)	1100	1465	1800(1620- 1980)	15 0	2970	15000	18000	896	1092	1.2	400



MOV Varistor Φ5mm Series



MOV Varistor Φ7mm Series



MOV Varistor Φ10mm Series



MOV Varistor Φ14mm Series



MOV Varistor Φ20mm Series



MOV Varistor Φ25mm Series



MOV Varistor Φ22mm Series



MOV Varistor Φ32mm Series



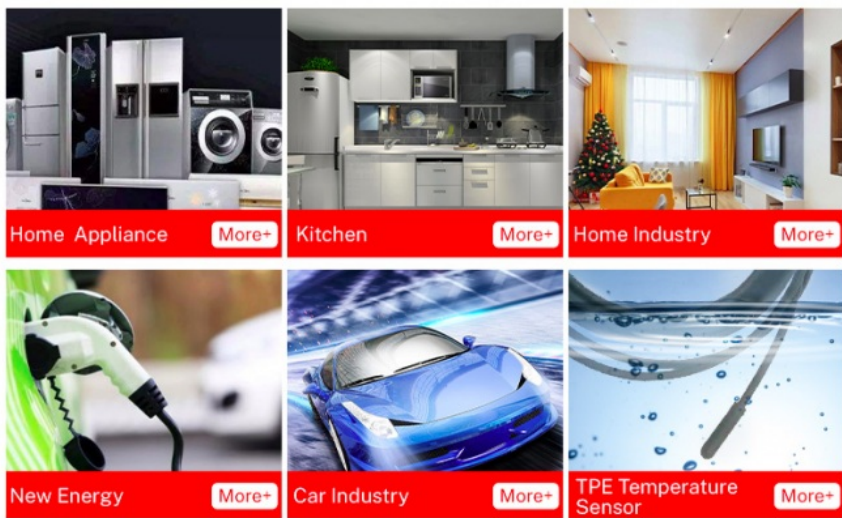
Production Process / Quality Control



Application

1. Varistor voltage: refers to the voltage value across the varistor at a specified temperature and DC (generally 1mA or 0.1mA). Recorded as V1mA or V0.1mA
2. Maximum continuous voltage: refers to the maximum effective value of sinusoidal AC voltage or the maximum DC voltage value that can be continuously applied to both ends of the varistor for a long time under the specified ambient temperature
3. Limiting voltage: refers to the maximum peak voltage at both ends of the varistor when a specified surge current (8,20μs) passes through it.
4. Rated power: refers to the maximum average impact power that can be applied to the varistor under the specified ambient temperature.
5. Maximum energy: the maximum impact energy that can be applied to the varistor under the condition that the varistor voltage does not change more than ±10% and the impulse current waveform is 10, 1000μs or 2ms.
6. Current capacity (maximum inrush current)

PRODUCT CATEGORIES



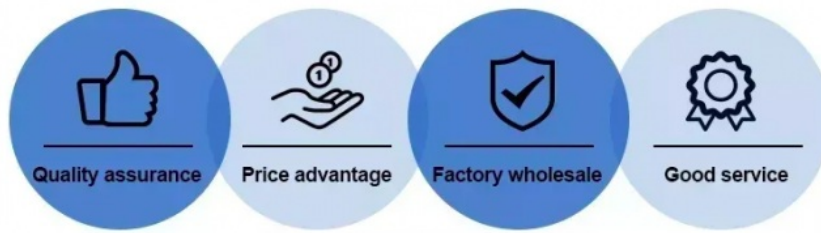
CERTIFICATES



OUR PARTNERS



Our advantage:



Dongguan Linkun Electronic Technology Co., Ltd.



13423305709



huangju@lk-ptc.com



lk-thermistor.com

Room 101, No. 21, Huayuanzai Road, Chongmei, Chashan Town, Dongguan City, Guangdong Province