



MYL53-241K (240V) MOV 53mm Zinc Oxide Varistor Round Copper Feet High Power Anti-Surge Voltage

Our Product Introduction

Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: Metal Oxide Varistor MYL 53-241B
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: 60pcs/box 480pcs/carton
- Delivery Time: Negotiation
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 24 million per year



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Product Specification

- Features: Strong Surge Withstand Capacity
- Application: Power Inverter / New Energy
- MAX ALLOWABLE VOLTAGE: Vrms 150V DC: 200(V)
- VARISTOR VOLTAGE: 216V~240V~264(V)
- Max. Clamping Voltage (8/20μs): Vp: 395V; Ip: 500A
- Rated Power: 1.5W
- Surge Current (1×8/20μs): 70000 A
- MAX ENERGY: 570(J)
- TYPICAL CAPACITANCE: 11000(pf)
- LEAKAGE CURRENT: ≤ 30(μA)
- Operating Temperature: -40°C ~ +85°C
- Material: Zinc Oxide
- IStorage Temperature: -55°C ~ +125°C



More Images



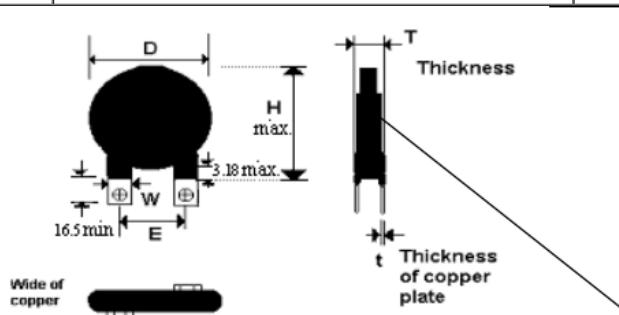
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Product Description



SPECIFICATION FOR APPROVAL

SPECIFICATION		NO.														
PART NO.	53D241K	PAGE 1 OF 2 DATE: September 03, 2023														
UL		CSA														
1. OUTLINE																
1.1 APPEARANCE	WITHOUT ANY CRACK, MARKING SHOULD BE CLEAR															
1.2 DIMENSIONS	DIMENSIONS (mm)															
																
<table border="1"><tr><td>D (Max)</td><td>60</td></tr><tr><td>H (Max)</td><td>78.0</td></tr><tr><td>T (Max)</td><td>7.0</td></tr><tr><td>W (± 0.05)</td><td>9.53</td></tr><tr><td>t</td><td>0.5</td></tr><tr><td>E (± 1.0)</td><td>25.4</td></tr><tr><td>Φ (M4)</td><td>4.3</td></tr></table>			D (Max)	60	H (Max)	78.0	T (Max)	7.0	W (± 0.05)	9.53	t	0.5	E (± 1.0)	25.4	Φ (M4)	4.3
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E (± 1.0)	25.4															
Φ (M4)	4.3															
2. ELECTRICAL PARAMETER																
2.1 MAX ALLOWABLE VOLTAGE	AC: 150(V) DC: 200V)	At 1mA DC														
2.2 VARISTOR VOLTAGE	216~264 V)	V0.1mA □ V1mA ■														
2.3 MAX CLAMPING VOLTAGE	IP: 500(A)	Test Current Waveform														

		Vc: 395(V)	8/20μs
2.4	WITHSTANDING SURGE CURRENT	In: 50000(A) IMax: 70000(A)	Test Current Waveform 8/20μs
2.5	MAX ENERGY	570(J)	Test Current Waveform 10/1000μs
2.6	TYPICAL CAPACITANCE	11000(pF) @1KHz	
2.7	LEAKAGE CURRENT	≤ 30(μA)	At 80% of Varistor Voltage
2.8	NONLINEAR EXPONENT (α)	≥30	$\alpha=\log \frac{I_1}{I_2}$ log $\frac{V_1}{V_2}$
2.9	TEMPERATURE COEFFICIENT OF VARISTOR VOLTAGE	≤±0.05%/ °C max	Vc85°C- Vc25°C Vcat25°C $\times \frac{1}{60} \times 100 (\text{ }^{\circ}\text{C})$
2.10	IMPULSE LIFE	≤±10% (V1mA)	Test Current Waveform 8/20μs

SPECIFICATION FOR APPROVAL

	SPECIFICATION	NO.
PART NO.	MYL-53D241K	PAGE 2 OF 2
UL		DATE: September 03, 2023
		CSA
3. Mechanical Requirements		
3.1	Tensile of Terminations	No Outstanding Damage 1Kgf; 10Sec.
3.2	Bending of Terminations	No Outstanding Damage 0.5Kgf; 90° ,3 Times
3.3	Vibration	No Outstanding Damage Freq:10-55hz; Amp:0.75mm,1Min.
3.4	Solderability	Min. 95% of The Terminal Should Be Covered With Solder Uniformly Solder Temp:260±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 30 min 2 Room Temp 15 min 3 125°C 30 min 4 Room Temp 15 min
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:40±2°C90-95% R.H. 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

Strong Surge Withstand Capacity 53D MOV Metal Oxide Varistor Wide Working Voltage Range

SPD varistor manufacturers believe that semiconductor devices are also one of the new components introduced into automobiles, mainly used to protect the electrical system of automobiles and avoid damage to the system by overvoltage and surge energy. The application of varistors in automobiles can avoid the use of various techniques to adjust the electrical system. The low-voltage high-energy zinc oxide varistor (MYN1) is directly used to adjust the voltage and current of the ab terminal of the power supply to protect the entire electrical system. Even if the battery is disconnected from the power supply or the load drops sharply, and there is a large surge energy at both ends of AB, the varistor can also protect semiconductor devices and various electronic devices from surge impact, thereby reducing the volume and weight of the vehicle, and reducing driving fuel consumption.

The application of varistors in automobiles can not only protect automobiles, but also improve automobile manufacturing technology and performance. SPD varistor manufacturers believe that rheostats can also protect the voltage and suppress the overvoltage of electronic ignition. When the ignition system is in normal working condition, the ignition ring will generate counter electromotive force. If the voltage across the secondary L2 calculated by the turns ratio exceeds 20kV, the high voltage will cause instantaneous breakdown of the spark plug, and the ignition will start normally. However, if the ignition system fails and the ignition is not normal, the induced voltage will cause a high overvoltage at the primary end of the ignition

system, thereby shortening the life. By applying varistors and directly connecting varistors at both ends of the composite tube, it is possible to protect the ignition system, suppress overvoltage, and protect the automotive electrical system.

Basic properties of varistors:

(1) Protection characteristics. When the impact strength of the impact source (or the impact current $I_{sp}=U_{sp}/Z_s$) does not exceed the specified value, the limited voltage of the varistor is not allowed to exceed the impact withstand voltage (U_{rp}) that the protected object can withstand.

(2) Impact resistance characteristics, that is, the varistor itself should be able to withstand the specified impact current, impact energy, and the average power when multiple impacts occur one after another.

(3) There are two life characteristics. One is the continuous working voltage life, that is, the varistor can meet the specified working time (hours) under the specified ambient temperature and system voltage conditions. The second is the impact life, that is, the number of times it can reliably withstand the specified impact.

Model Number	53D 181K 241K 431K 471K 511K 561K 681K 751K 781K 821K 911K 102K 112K 152K 182K
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

Transistor, diode, IC, thyristor or triac semiconductor protection

Surge protection in consumer electronics Surge protection in industrial electronics

Surge protection in electronic home appliances, gas and petroleum appliances

Relay and electromagnetic valve surge absorption

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	Vac (V)	Vdc (V)	V1mA(V)	I _p (A)	Vac (V)	I(A)Standard	I(A)High Surge	I(J)Standard	I(J)High Surge	Rated power(W)	C@1KHz (pf)
20D180 K(J)	11	14	18(15-21.6)	20	36	2000	3000	11	13	0.2	28500
20D220 K(J)	14	18	22(19.5-26)	20	43	2000	3000	14	16	0.2	18500
20D270 K(J)	17	22	27(24-31)	20	53	2000	3000	16	19	0.2	13000
20D330 K(J)	20	26	33(29.5-36.5)	20	65	2000	3000	23	24	0.2	11500
20D390 K(J)	25	31	39(35-43)	20	77	2000	3000	26	28	0.2	8500
20D470 K(J)	30	38	47(42-52)	20	93	2000	3000	30	34	0.2	7400
20D560 K(J)	35	45	56(50-62)	20	110	2000	3000	41	41	0.2	6500
20D680 K(J)	40	56	68(61-75)	20	135	2000	3000	46	49	0.2	5800
20D820 K(J)	50	65	82(74-90)	100	135	6500	10000	38	56	1.0	4900
20D101 K(J)	60	85	100(90-110)	100	165	6500	10000	45	70	1.0	4000
20D121 K(J)	75	100	120(108-132)	100	200	6500	10000	55	85	1.0	3300
20D151 K(J)	95	125	150(135-165)	100	250	6500	10000	70	106	1.0	2700
20D181 K(J)	115	150	180(162-198)	100	300	6500	10000	85	130	1.0	2200
20D201 K(J)	130	170	200(180-220)	100	340	6500	10000	95	140	1.0	2000
20D221 K(J)	140	180	220(198-242)	100	360	6500	10000	100	155	1.0	1800
20D241 K(J)	150	200	240(216-264)	100	395	6500	10000	108	168	1.0	1650
20D271 K(J)	175	225	270(243-297)	100	455	6500	10000	127	190	1.0	1500

20D301 K(J)	190	250	300(270- 330)	10 0	500	6500	10000	136	210	1.0	130 0
20D331 K(J)	210	275	330(297- 363)	10 0	550	6500	10000	150	228	1.0	120 0
20D361 K(J)	230	300	360(324- 396)	10 0	595	6500	10000	163	255	1.0	110 0
20D391 K(J)	250	320	390(351- 429)	10 0	650	6500	10000	180	275	1.0	100 0
20D431 K(J)	275	350	430(387- 473)	10 0	710	6500	10000	190	305	1.0	930
20D471 K(J)	300	385	470(423- 517)	10 0	775	6500	10000	220	350	1.0	850
20D511 K(J)	320	415	510(459- 561)	10 0	845	6500	10000	220	360	1.0	780
20D561 K(J)	350	460	560(504- 616)	10 0	925	6500	10000	220	380	1.0	710
20D621 K(J)	385	505	620(558- 682)	10 0	102 5	6500	10000	220	390	1.0	650
20D681 K(J)	420	560	680(612- 748)	10 0	112 0	6500	10000	230	400	1.0	600
20D751 K(J)	460	615	750(675- 825)	10 0	124 0	6500	10000	255	420	1.0	530
20D781 K(J)	485	640	780(702- 858)	10 0	129 0	6500	10000	265	440	1.0	510
20D821 K(J)	510	670	820(738- 902)	10 0	135 5	6500	10000	282	460	1.0	500
20D911 K(J)	550	745	910(819- 1001)	10 0	150 0	6500	10000	310	510	1.0	440
20D102 K(J)	625	825	1000(900- 1100)	10 0	165 0	6500	10000	342	565	1.0	400
20D112 K(J)	680	895	1100(990- 1210)	10 0	181 5	6500	10000	383	620	1.0	360
20D122 K(J)	750	990	1200(1080- 1320)	10 0	198 0	6500	10000	408	660	1.0	350
20D142 K(J)	880	114 0	1400(1260- 1540)	10 0	231 0	6500	10000	532	784	1.0	340
20D162 K(J)	100 0	128 0	1600(1440- 1760)	10 0	264 0	6500	10000	606	896	1.0	330
20D182 K(J)	110 0	146 5	1800(1620- 1980)	10 0	297 0	6500	10000	625	990	1.0	320

Production Process / Quality Control

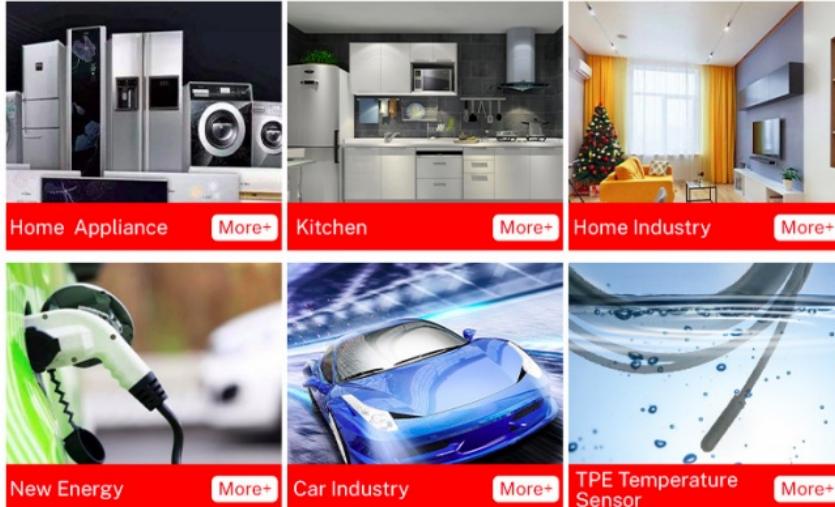


Application

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 V0.1mAo
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 //



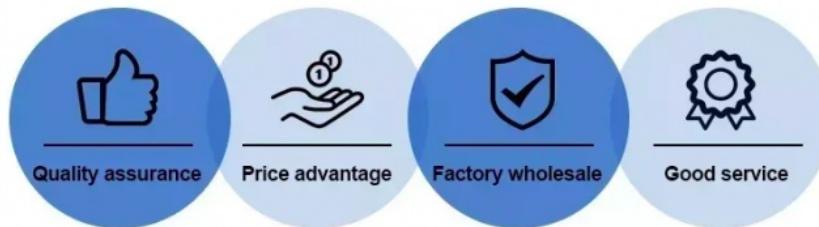
CERTIFICATES



OUR PARTNERS



Our advantage:



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