

High Power Zov Varistor 07d 271k 270V Φ7mm Package Type 10A IP 230V VC

Basic Information

- Place of Origin:
- Brand Name:
- Certification: VDE ,UL,REACH,RoHS,ISO
- Model Number:
- Minimum Order Quantity: 100
- Price: Negotiable
- Delivery Time:



Shenzhen, Guangdong, China

5-8 work days

SOCAY



Product Specification

- Product Name:
- Length:
- VAC:
- VDC:
-
- Varistor Voltage:
- IP:

• Highlight:

- VC:
- Rated Power:
- Typ. Capacitance:
- Metal Oxide Varistor Φ7mm 140V 180V 220(198~242)V 10A 230V 0.25W 100pF High Power Zov Varistor, Zov Varistor 270V



More Images



Our Product Introduction

Product Description

High Power Zov Varistor 07d 271k 270V Φ7mm Package Type 220(198~242)V

DATASHEET: 07D Series_v2306.1.pdf

Type Numb	er	Max m Allo ble volt		Varistor Voltage	Cla r	kimu m impi ng tage		Su	andin rge rent	-	Maxin Ener (10/10)			Typical Capacit ance (Refere nce)
Stand ard	U U		V _{DC} (V)	V1mA (V)		V _C (V)	· ·	A) dard 2 Time	HÌ	A) gh rge 2 Time	ыапда	(J) High Surg e	(W)	@1KHZ (pf)
07D18	07D18			18(15~2				s	<u> </u>	s				
0K	0KJ 07D22	11	14	1.6) 22(19.5~		36	250	125	500	250	0.9	2.0	0.02	2800
0K	0KJ	14		26)	2.5	43	250	125	500	250	1.1	2.4	0.02	2300
07D27 0K	07D27 0KJ	17	22	27(24~3 0)	2.5	53	250	125	500	250	1.4	3.0	0.02	1800
07D33 0K	07D33 0KJ	20	26	33(29.5~ 36.5)	2.5	66	250	125	500	250	1.7	3.5	0.02	1500
07D39	07D39 0KJ	25		39(35~4 3)	2.5	77	250	125	500	250	2.1	4.0	0.02	1300
07D47	07D47	30	38	47(42~5	2.5	93	250	125	500	250	2.5	5.0	0.02	1100
	0KJ 07D56	35	15	4) 56(50~6	2.5	110	250	125	500	250	3.1	6.0	0.02	900
0K 07D68	0KJ 07D68	40		2) 68(61~7	<u> </u>		250	125	500	250	3.6		0.02	740
	0KJ 07D82			5) 82(74~9								7.0		
0K	0KJ	50	65	0)	10	135	1200	600	1750	1250	5.5	10.0	0.25	600
07D10 1K	07D10 1KJ	60	85	100(90~ 110)	10	165	1200	600	1750	1250	6.5	12.0	0.25	500
07D12 1K	07D12 1KJ	75	100	120(108 ~132)	10	200	1200	600	1750	1250	7.8	13.0	0.25	420
07D15 1K	07D15 1KJ	95	125	150(135 ~165)	10	250	1200	600	1750	1250	9.7	13.0	0.25	330
	07D18 1KJ	115	150	180(162 ~198)	10	300	1200	600	1750	1250	11.7	16.0	0.25	280
07D20	07D20	130	170	200(180	10	340	1200	600	1750	1250	13.0	17.0	0.25	250
	1KJ 07D22	140	180	~220) 220(198	10	360	1200	600	1750	1250		19.0		230
1K 07D24	1KJ 07D24		200	~242) 240(216		395	1200			1250				210
1K 07D27	1KJ 07D27			~264) 270(243	<u> </u>									
1K	1KJ 07D30	175	225	~297) 300(270	10	455	1200	600	1750	1250	18.0	24.0	0.25	185
1K	1KJ	190	250	~330)	10	500	1200	600	1750	1250	20.0	26.0	0.25	165
07D33 1K	07D33 1KJ	210	275	330(297 ~363)	10	550	1200	600	1750	1250	23.0	28.0	0.25	150
	07D36 1KJ	230	300	360(324 ~396)	10	595	1200	600	1750	1250	25.0	32.0	0.25	140
	07D39 1KJ	250	320	390(351 ~429)	10	650	1200	600	1750	1250	25.0	35.0	0.25	130
07D43	07D43	275	350	430(387	10	710	1200	600	1750	1250	28.0	40.0	0.25	115
-	1KJ 07D47	300		~473 470(423	<u> </u>	775	1200			1250		42.0		105
1K 07D51	1KJ 07D51			~517) 510(459										
1K	1KJ 07D56	320	413	~561) 560(504	<u> </u>	845	1200			1250		45.0		100
1K	1KJ	350	400	~616)	10	925	1200		1750	1250	30.0	49.0	0.25	90
1K	IKJ	385	505	620(558 ~682)	10	102 5	1200	600	1750	1250	33.0	55.0	0.25	80
07D68 1K	07D68 1KJ	420	560	680(612 ~748)	10	112 0	1200	600	1750	1250	33.0	60.0	0.25	75
07D75 1K	07D75 1KJ	460	615	, 750(675 ~825)	10	124 0	1200	600	1750	1250	67.2	65.0	0.25	70
	07D78 1KJ	485	640	780(702 ~858)	10	0 129 0	1200	600	1750	1250	67.2	65.0	0.25	70

Our Product Introduction

07D82 07D82 510 670 820(738) 10 135 1K 1KJ 510 670 ~902) 10 5 Remark: Voltage>33V, K is ±10%	1200 600 1750 1250 67	7.2 70.0 0.25 60
SOCAY®		
17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11K 070471K	

Description:

The 07D 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 1.75KA (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.

What is the function of varistor?

The response time of the varistor is ns level, which is faster than the air discharge tube and slightly slower than the TVS tube. Generally, its response speed can meet the requirements for over-voltage protection of electronic circuits. The junction capacitance of a varistor is generally in the order of hundreds to thousands of Pf. In many cases, it is not suitable to be directly used in the protection of high-frequency signal lines. When used in the protection of AC circuits, its large junction capacitance will increase leakage. Current needs to be fully considered when designing protective circuits. The flow capacity of the varistor is larger, but smaller than that of the gas discharge tube.

The biggest feature of the varistor is that when the voltage applied to it is lower than its threshold "UN", the current flowing through it is extremely small, equivalent to a closed valve. When the voltage exceeds UN, its resistance The value becomes smaller, which causes the current flowing through it to surge without much change in the impact on other circuits, thereby reducing the impact of overvoltage on subsequent sensitive circuits. Using this function, abnormal overvoltage that often occurs in the circuit can be suppressed and the circuit can be protected from overvoltage damage.

Varistors are mainly used for transient overvoltage protection, but its volt-ampere characteristics similar to those of semiconductor voltage regulators also allow it to have a variety of circuit component functions, such as:

(1) The stable voltage of DC high-voltage and low-current voltage stabilizing components can be as high as several thousand volts, which is beyond the reach of silicon voltage regulator tubes.

- (2) Voltage fluctuation detection component.
- (3) DC battery shift component.
- (4) Voltage equalizing components.

(5) Fluorescence starting component

Features:

- u Wide operating voltage (V1mA) range from 18V to 820V
- u Fast responding to transient over-voltage
- u Large absorbing transient energy capability
- u Low clamping ratio and no following-on current
- u Meets MSL level 1, per J-STD-020

Common classifications of varistor

1. Various diameter sizes: 5mm, 7mm, 10mm, 14mm, 20mm, 25mm, 32mm, 34mm, 40mm, 53mm. According to the size, SOCAY's conventional naming is 5mm-5D; 10mm-10D, and so on...

- 2. Wide range of variable resistor voltage range: 18V-1800V
- 3. Multiple surge withstand capabilities: standard, high surge, ultra-high surge
- 4. Large current processing and energy absorption capabilities
- 5. The flow rate of a single unit can reach 70KA or even higher.
- 6. Fast response time
- 7. Low leakage current
- 8. Various lead forms: straight, curved and other special lead types
- 9. Various packaging forms: bulk, roll packaging, roll packaging
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Material	No Radioactive Material
Operating Temperature	-40 ~ +85
Storage Temperature	-55 ~ +125
Body	Nickel Plated
Leads	Tin Plated
Devices with No lead	Nickel Plated

ltem		Test Condition / Descri	ption	Requirement
Maximum Allowable			e (RMS) or the maximum DC	
Voltage	voltage can be applied		specified measuring curren	
Varistor Voltage	1mA.DC applied is cal		specified measuring current	
Maximum Clamping Voltage	The maximum volta: standard impulse curr Applied waveform: 8/2	ent. Ομε	als with the specification	To meet the specified value
Rated Wattage			applied within the specified	1
Energy	The maximum energy impulse of 10/1000µs.		e change of ±10% when one	•
Withstanding Surge Current		t within the varistor volta ent (8/20₃sec.) applied or	ge change of±10% with the netime	
Varistor Voltage Temp. Coefficient	Vb at 20℃ Vb at	C - Vb at 70°C × 1/50 × 50 ×	× 100(% / ℃)	0.05%/°⊂ max
			the impulse listed below is erval often seconds at room	
	5D Series	180K to 680K	10A (8/20µs)	
	00 00103	820K to 751K	20A (8/20µs)	
	7D Series	180K to 680K	25A (8/20µs)	
Surge Life		820K to 821K	50A (8/20µs)	∆Vb / Vb ≤ ±10%
-	10D Series	180K to 680K	50A (8/20µs)	
	100 contras	820K to 112K	100A (8/20µs)	
	14D Series	180K to 680K	75A (8/20µs)	
	14D Joines	820K to 182K	150A (8/20µs)	
	20D Series	180K to 680K	100A (8/20µs)	
	200 00103	820K to 182K	200A (8/20µs)	1

D XXX K J J : High Surge, without: Standard Tolerance: K: ±10%, L: ±15%, M: ±20% Variator Voltage Type: D: Disk, S. Square Element Diameter With a line: High Surge Without: Standard ULAcceditation Logo Copy (PTDXXXX) Produit Type VOE Accreditation Logo Yunitor Voltage Type: D: Disk, S. Square Element Diameter Yunitor Voltage Type: D: Disk, S. Square Element Diameter Packaging Option Packaging Specification 07DXXXXX 1000 Plastic bag Bulk Pack vickage Dimensions Unit: mm Image: Specification Image: Specification 107DXXXXX 1000 Plastic bag Bulk Pack Vold Type ULAcceditation Logo Vold Type	rt Numbering		Part Marking					
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07DXXXXX 1000 Plastic bag Bulk Pack ickage Dimensions Unit: mm Image: Constraint of the state o	ckaging Information							
Interview of the second	Part Number	Quantity	Packaging	Option	Packaging Specification			
Image: Symbol TABLE1 Symbol Dimensions H(max) 12.0 H(max) 12.0 H1(minx) 15.0 L(min.) 15.0 L(min.) 15.0 270K 4.70 301K 5.00 P(±0.8) 5.0 7(max.) TABLE2 470K 4.90 331K 5.10 Q1(±0.05) 0.6 0.6 101K 4.30 561K 6.50 121K 4.80 661K 7.30 11K 6.50 121K 4.80 661K 7.30 121K 4.80 661K 7.30 11K 4.50 521K 7.10	07DXXXXX	1000	Plastic	Plastic bag		Bulk Pack		
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d(±0.05) 0.6 d1(±0.05) 0.6 Back 5.20 471K 6.00 820K 4.10 511K 6.20 101K 4.30 561K 6.50 121K 4.50 621K 7.10 151K 4.80 681K 7.30 181K 4.30 751K 7.06								
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121K 4.50 621K 7.10 151K 4.80 681K 7.30 181K 4.30 751K 7.06	a1(±0.05)	J.0						
181K 4.30 751K 7.06								
201K 4.40 /61K /.24					-			
221K 4.50 821K 7.28								
Socay [®] Shenzhen Socay Electronics Co., Lto		SOCAY	[®] Shenzhe	n Socay	Electronic	s Co., Lto		

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