



## Radial Leaded Metal Oxide Varistor MOVs $\Phi 25\text{mm}$ 25D391K Varistor

Our Product Introduction

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, VDE, REACH, RoHS, ISO
- Model Number: 25D391k
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Packaging Details: bulk and taping
- Delivery Time: within 3weeks



### Product Specification

- Item: Metal Oxide Varistor
- Package:  $\Phi 25\text{mm}$
- VAC: 250V
- VDC: 320V
- Varistor Voltage: 390(351~429)V
- IP: 25A
- VC: 650V
- Rated Power: 0.4W
- Typ. Capacitance: 200pF
- Withstanding Surge Current: 2.5KA (1 Time)
- Material: Zinc Oxide
- Highlight: **Metal Oxide Varistor MOVs,  
Radial Leaded Metal Oxide Varistor,  
10D391K Varistor**



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## Product Description

### Radial Leaded Metal Oxide Varistor MOVs $\Phi$ 25mm 25D391K Varistor

**DATASHEET:** [25D Series\\_v2306.1.pdf](#)

#### Introduction

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.

#### Main Material

Zinc oxide material

| Type Number |            | Maximum Allowable voltage |                     | Varistor Voltage | Maximum Clamping Voltage |                    | Withstanding Surge Current 8/20 $\mu$ S |                | Rated Power | Energy (10/1000 $\mu$ s) | Capacitance |
|-------------|------------|---------------------------|---------------------|------------------|--------------------------|--------------------|-----------------------------------------|----------------|-------------|--------------------------|-------------|
| Standard    | High Surge | V <sub>AC</sub> (V)       | V <sub>DC</sub> (V) | V 1mA (V)        | I <sub>P</sub> (A)       | V <sub>C</sub> (V) | Stand (A)                               | High Surge (A) | (W)         | (J)                      | @1KHZ (pF)  |
|             |            |                           |                     |                  |                          |                    | 1 Time                                  | 1 Time         |             |                          |             |
| 25D101K     | 25D101KJ   | 60                        | 85                  | 100(90-110)      | 150                      | 165                | 10000                                   | 20000          | 1.4         | 100                      | 6300        |
| 25D201K     | 25D201KJ   | 130                       | 170                 | 200(185-225)     | 150                      | 330                | 15000                                   | 20000          | 1.0         | 215                      | 2000        |
| 25D221K     | 25D221KJ   | 140                       | 180                 | 220(198-242)     | 150                      | 360                | 15000                                   | 20000          | 1.0         | 235                      | 1800        |
| 25D241K     | 25D241KJ   | 150                       | 200                 | 240(216-264)     | 150                      | 395                | 15000                                   | 20000          | 1.0         | 245                      | 1650        |
| 25D271K     | 25D271KJ   | 175                       | 225                 | 270(243-297)     | 150                      | 455                | 15000                                   | 20000          | 1.0         | 260                      | 1500        |
| 25D301K     | 25D301KJ   | 190                       | 250                 | 300(270-330)     | 150                      | 505                | 15000                                   | 20000          | 1.0         | 275                      | 1300        |
| 25D331K     | 25D331KJ   | 210                       | 275                 | 330(297-363)     | 150                      | 550                | 15000                                   | 20000          | 1.0         | 295                      | 1200        |
| 25D361K     | 25D361KJ   | 230                       | 300                 | 360(324-396)     | 150                      | 595                | 15000                                   | 20000          | 1.0         | 305                      | 1100        |
| 25D391K     | 25D391KJ   | 250                       | 320                 | 390(351-429)     | 150                      | 650                | 15000                                   | 20000          | 1.0         | 335                      | 1000        |
| 25D431K     | 25D431KJ   | 275                       | 350                 | 430(387-473)     | 150                      | 710                | 15000                                   | 20000          | 1.0         | 365                      | 930         |
| 25D471K     | 25D471KJ   | 300                       | 385                 | 470(423-517)     | 150                      | 775                | 15000                                   | 20000          | 1.0         | 390                      | 850         |
| 25D511K     | 25D511KJ   | 320                       | 415                 | 510(459-561)     | 150                      | 845                | 15000                                   | 20000          | 1.0         | 440                      | 780         |
| 25D561K     | 25D561KJ   | 350                       | 460                 | 560(504-616)     | 150                      | 920                | 15000                                   | 20000          | 1.0         | 490                      | 715         |
| 25D621K     | 25D621KJ   | 385                       | 505                 | 620(558-682)     | 150                      | 1025               | 15000                                   | 20000          | 1.0         | 540                      | 650         |
| 25D681K     | 25D681KJ   | 420                       | 560                 | 680(612-748)     | 150                      | 1120               | 15000                                   | 20000          | 1.0         | 570                      | 600         |
| 25D751K     | 25D751KJ   | 460                       | 615                 | 750(675-825)     | 150                      | 1240               | 15000                                   | 20000          | 1.0         | 590                      | 530         |
| 25D781K     | 25D781KJ   | 485                       | 640                 | 780(702-858)     | 150                      | 1290               | 15000                                   | 20000          | 1.0         | 620                      | 510         |
| 25D821K     | 25D821KJ   | 510                       | 670                 | 820(738-902)     | 150                      | 1355               | 15000                                   | 20000          | 1.0         | 655                      | 500         |
| 25D911K     | 25D911KJ   | 550                       | 745                 | 910(819-1001)    | 150                      | 1500               | 15000                                   | 20000          | 1.0         | 726                      | 440         |
| 25D102K     | 25D102KJ   | 625                       | 825                 | 1000(900-1100)   | 150                      | 1650               | 15000                                   | 20000          | 1.0         | 685                      | 650         |
| 25D112K     | 25D112KJ   | 680                       | 895                 | 1100(990-1210)   | 150                      | 1815               | 15000                                   | 20000          | 1.0         | 770                      | 600         |
| 25D122K     | 25D122KJ   | 750                       | 990                 | 1200(1080-1320)  | 150                      | 1980               | 15000                                   | 20000          | 1.0         | 770                      | 550         |



#### 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

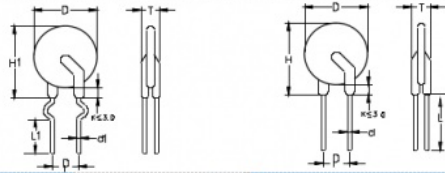
|                             |                                 |
|-----------------------------|---------------------------------|
| Operating Temperature       | -40 ~ +85                       |
| Storage Temperature         | -40 ~ +85                       |
| Working Surface Temperature | +115                            |
| Insulation Resistance       | > 100MΩ                         |
| Coating (Epoxy Resin)       | Flame-Retardant to<br>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 |

| Part Numbering                                                                                                                                                                                                                                            | Part Marking                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>25 D XXX K J</b></p> <ul style="list-style-type: none"> <li>J: High Surge, without: Standard</li> <li>Tolerance:<br/>K: ±10%, L: ±15%, M: ±20%</li> <li>Varistor Voltage</li> <li>Type:<br/>D: Disk, S: Square</li> <li>Element Diameter</li> </ul> | <p>With a line: High Surge<br/>Without: Standard</p>  <p>Logo<br/>Product Type<br/>UL Accreditation Logo<br/>VDE Accreditation Logo</p> |

Package Dimensions Unit: mm



| TABLE1    |            |
|-----------|------------|
| Symbol    | Dimensions |
| H(max.)   | 31.0       |
| H1(max.)  | 31.0       |
| L(min.)   | 20.0       |
| L1(min.)  | 20.0       |
| D(max.)   | 29.0       |
| P(±1.0)   | 10.0       |
| T(max.)   | TABLE2     |
| d(±0.05)  | 1.0        |
| d1(±0.05) | 1.0        |

| TABLE2 |         |       |         |
|--------|---------|-------|---------|
| Model  | T(max.) | Model | T(max.) |
| 101K   | 5.7     | 511K  | 7.8     |
| 201K   | 5.5     | 561K  | 8.1     |
| 221K   | 5.6     | 621K  | 8.5     |
| 241K   | 5.7     | 681K  | 8.6     |
| 271K   | 5.9     | 751K  | 9.1     |
| 301K   | 6.1     | 781K  | 9.3     |
| 331K   | 6.3     | 821K  | 9.6     |
| 361K   | 6.6     | 911K  | 10.2    |
| 391K   | 6.8     | 102K  | 10.8    |
| 431K   | 7.1     | 112K  | 11.5    |
| 471K   | 7.4     | 122K  | 8.8     |

We are manufacturer and supplier with over 20 years experience for passive components as below

- 1- ESD
- 2- TVS Diodes
- 3- PPTC Resettable Fuse
- 4- Gas Discharge Tube
- 5- NTC Themistor
- 6- Varistor,etc.

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