

Metal Oxide Varistors (MOV)

Features

- Wide operating voltage (V1mA) range from 18V to 1100V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Meets MSL level 1, per J-STD-020
- Operating Temperature: -40°C ~ +85°C
- Safety certification:

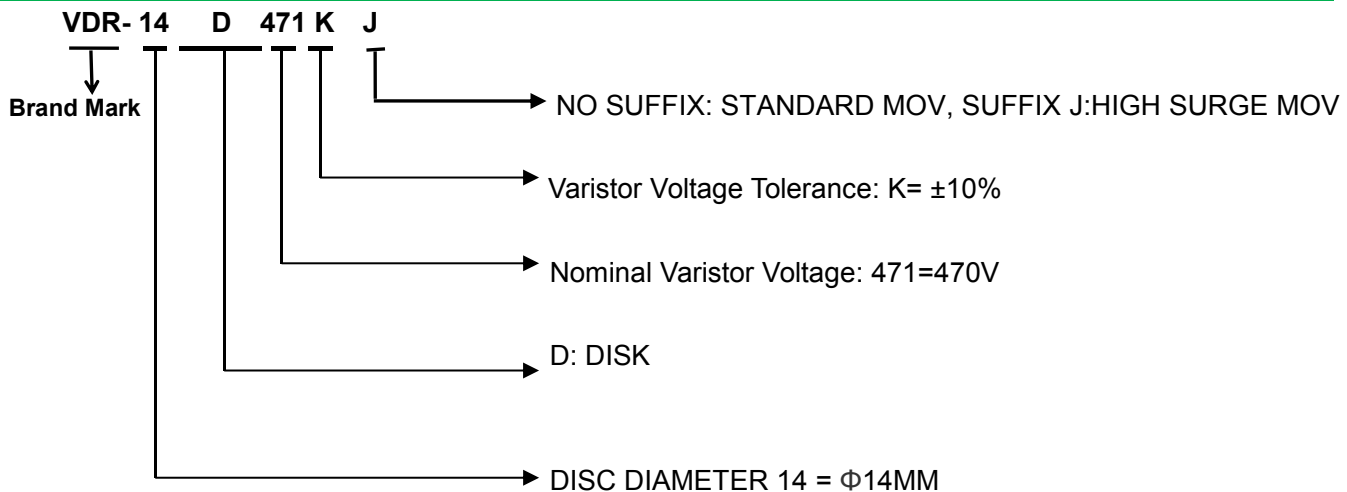


Applications

LED light.



Description of Part Number



Delivery Time

Standard MOV	Delivery Time
VDR-14D271K-G~VDR-14D621K-G	18days

Electrical Characteristics

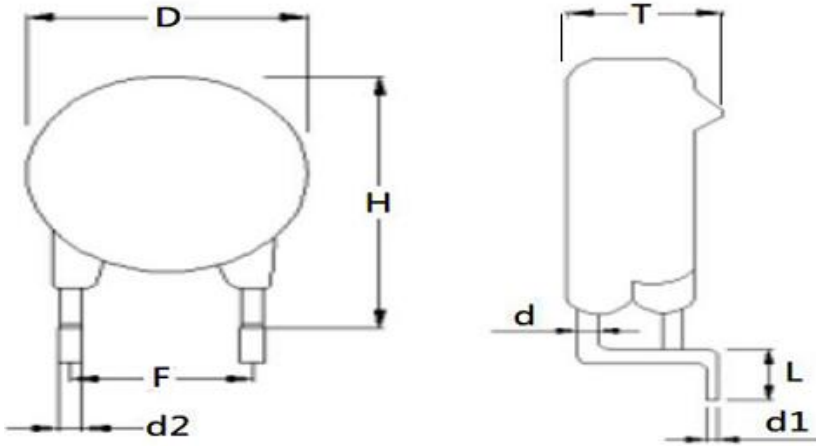
Part Number	Maximum Allowable Voltage		Varistor Voltage $V_{1mA}(V)$	Maximum Clamping Voltage	Max Surge Current 8/20 μ s	Maximum Energy (10/1000 μ s)	Typical Capacitance (Reference)	Safety Certification	
	$V_{AC}(V)$	$V_{DC}(V)$		$V_C(V)$ AT 50A	I_{max} Standard	(J) Standard	1KHz(pf)	UL / CUL	VDE
VDR-14D271K-G	175	225	270(243~297)	455	6000A	99	670	√	√
VDR-14D331K-G	210	275	330(297~363)	550	6000A	115	560	√	√
VDR-14D471K-G	300	385	470(423~517)	775	6000A	180	430	√	√
VDR-14D511K-G	320	415	510(459~561)	845	6000A	185	390	√	√
VDR-14D561K-G	350	460	560(504~616)	925	6000A	190	360	√	√
VDR-14D621K-G	385	505	620(558~682)	1025	6000A	195	320	√	√

For different voltage application environments, we recommend the following pressure sensitive combinations to provide over voltage, surge and lightning stroke protection for ACLED.

Working Voltage Environment	Last-level pressure Sensitive parameter	Next-level pressure Sensitive parameter	Remarks
110VAC ±20%	270VDC ±10%	270VDC ±10%	Users base their wave protection on The pressure-sensitive volume match Hing is selected for the inrush grade.
120VAC ±20%	330VDC ±10%	330VDC ±10%	
220VAC - 230VAC±20%	510VDC ±10%	510VDC ±10%	The combination is recommended For users in Indian and Brazil
240VAC ±20%	560VDC ±10%	560VDC ±10%	

Since pressure sensitive resistor is easy to degrade under the environment with strong voltage fluctuation, it is required to select the combination with high pressure sensitive voltage value as much as possible under the premise that withstand voltage of IC(MOS tube)+lamp bead on lamp board is pretty high and that voltage has a large fluctuation area. besides, it is necessary to select pressure sensitive resistor with large fluctuation and volume as far as possible, without exceeding cost limit.

Dimension(mm) Paste Varistor



Symbol	Dimensions
H	19.0mm
D	15.5mm
F	7.5mm
d2	0.9mm
d	0.8mm
L	2.5mm
d1	0.60mm
T	6.0mm

Packing Information

Part Number	Quantity	Packaging Option
VDR-14DxxxK	800PCS	Reel Pack

Notice for use

To avoid damage to other equipment due to fire or deterioration caused by varistor, please refer to and observe the following principles:

1) When a high current or high voltage flows into the varistor, the varistor itself may be damaged, heated, smoke, catch fire and burst.

To avoid this, fuses or circuit breakers can be installed at both ends of the varistor or power supply;

The fuses of the following specifications are for reference only:

	Diameter 05D	07D	10D	14D	20D
Rated current of fuse	1-2A	2-3A	3-5A	3-10A	5-15A

2) Do not allow the current and energy flowing into the varistor to exceed its rated value.

3) The marked VDR product brand names and marks are all patent applications of the company.

Customers who use or sell VDR products that are not specifically designated for such applications are at their own risk.

4) All VDR products, product specifications and data are subject to change without notice, please improve. For any data sheet Or any other data sheet. Any errors included. Inaccurate or incomplete shall not be liable.