

Metal Oxide Varistors (MOV)

Features

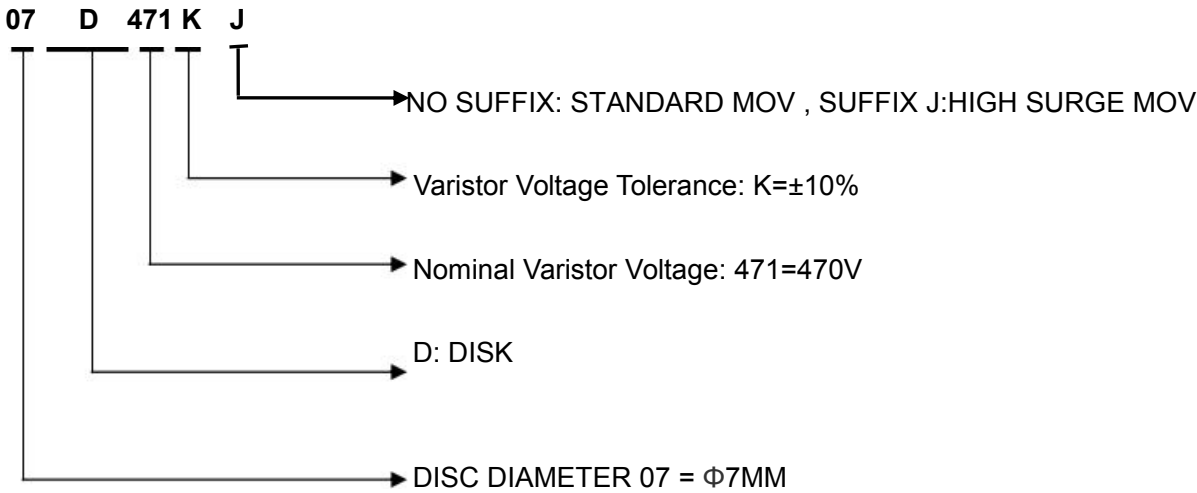
- Wide operating voltage (V1mA) range from 18V to 820V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Low clamping ratio and no follow-on current
- Meets MSL level 1, per J-STD-020
- Operating Temperature: -40℃ ~ +85℃
- Storage Temperature: -40℃ ~ +125℃
- Safety certification:



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

Description of Part Number



Delivery Time

2KV/1KA MOV	Delivery Time
07D820KEC ~ 07D821KEC	14days

Electrical Characteristics									
Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage	Withstanding Current	Surge Energy (10/1000µs)	Typical Capacitance (Reference)	Safety Certification	
					1.2/50us & 8/20us combination of wave,2KV/1KA Sub 0,90,180,270 four phases,Total				
2KV/1KA MOV	V _{AC} (V)	V _{DC} (V)	V _{1mA} (V)	V _C (V)		(J)	1KHz(pf)	UL / CUL	VDE
07D820KEC	50	65	82(73.8~90.2)	135	40 times	12	600	√	√
07D101KEC	60	85	100(90~110)	165	40 times	14	500	√	√
07D121KEC	75	100	120(108~132)	200	40 times	14	420	√	√
07D151KEC	95	125	150(135~165)	250	40 times	16	330	√	√
07D181KEC	115	150	180(162~198)	300	40 times	19	280	√	√
07D201KEC	130	170	200(180~220)	340	40 times	20	250	√	√
07D221KEC	140	180	220(198~242)	360	40 times	23	230	√	√
07D241KEC	150	200	240(216~264)	395	40 times	25	210	√	√
07D271KEC	175	225	270(243~297)	455	40 times	29	185	√	√
07D301KEC	190	250	300(270~330)	500	40 times	31	165	√	√
07D331KEC	210	275	330(297~363)	550	40 times	34	150	√	√
07D361KEC	230	300	360(324~396)	595	40 times	38	140	√	√
07D391KEC	250	320	390(351~429)	650	40 times	42	130	√	√
07D431KEC	275	350	430(387~473)	710	40 times	48	115	√	√
07D471KEC	300	385	470(423~517)	775	40 times	50	105	√	√
07D511KEC	320	415	510(459~561)	845	40 times	54	100	√	√
07D561KEC	350	460	560(504~616)	925	40 times	59	90	√	√
07D621KEC	385	505	620(558~682)	1025	40 times	66	80	√	-
07D681KEC	420	560	680(612~748)	1120	40 times	72	75	√	-
07D751KEC	460	615	750(675~825)	1240	40 times	81	70	√	-
07D781KEC	485	640	780(702~858)	1290	40 times	81	70	√	-
07D821KEC	510	670	820(738~902)	1355	40 times	82	60	√	-

Dimension(mm)

Straight Leads

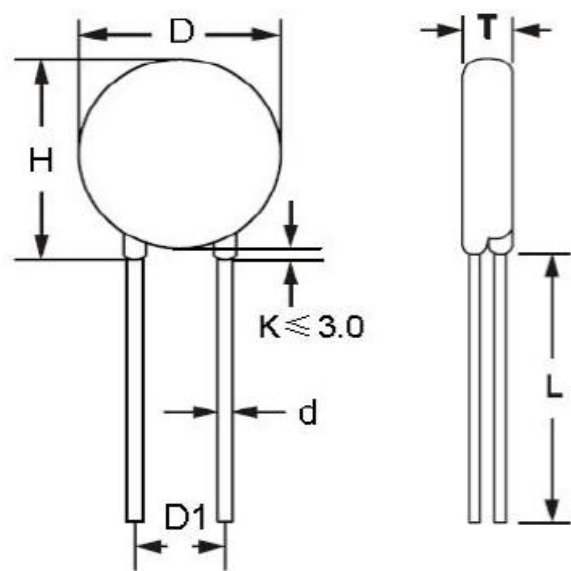


TABLE1		TABLE2			
Symbol	Dimensions	Part number	T(±1.0mm)	Part number	T(±1.0mm)
H(Max)	11.0mm	07D180K	2.5mm	07D241K	2.6mm
L(Min)	22.0mm	07D220K	2.6mm	07D271K	2.9mm
D(Max)	9.0mm	07D270K	2.7mm	07D301K	3.0mm
D1(±0.8)	4.5mm	07D330K	2.9mm	07D331K	3.1mm
T	TABLE2	07D390K	2.8mm	07D361K	3.2mm
d(±0.05)	0.6mm	07D470K	2.9mm	07D391K	3.4mm
		07D560K	3.0mm	07D431K	3.7mm
		07D680K	3.2mm	07D471K	4.0mm
		07D820K	2.1mm	07D511K	4.2mm
		07D101K	2.3mm	07D561K	4.5mm
		07D121K	2.5mm	07D621K	5.1mm
		07D151K	2.8mm	07D681K	5.3mm
		07D181K	2.3mm	07D751K	5.03mm
		07D201K	2.4mm	07D781K	5.24mm
		07D221K	2.5mm	07D821K	5.48mm

Packing Information

Part Number	Quantity	Packaging Option	Packaging Specification
07DxxxKEC	1000PCS	Plastic bag	Bulk 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 Varistor brand names and marks are all patent applications of the company. Customers who use or sell our Varistors that are not specifically designated for such applications are at their own risk.

4) All Varistors 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.

5) Regarding the suitability of products for specific applications. It is the customer's responsibility to confirm that products with the characteristics described in the product specifications application. The data provided in the parameter data sheets and / or specifications may vary for different applications and performance may vary over time Variety. All operating parameters, including typical parameters, must be provided by the customer's technical experts. Product specifications will not expand or Modify the procurement terms and conditions in other ways, including but not limited to the guarantees described therein.

6) Do not place flammable substances near the varistor.

7) The varistor can only emit a small amount of heat energy, so it is not suitable for use in equipment that often generates sudden heat.

In addition, the higher the working environment of the varistor, the smaller the proportion of heat dissipated.

Varistors can only dissipate a small amount of heat energy, so they are not suitable for use in equipment that often generates sudden heat.

If a large amount of heat acts on the varistor in an instant, it is possible that the heat energy cannot be dissipated within the pulse time And the varistor is damaged.

8) When welding, please be careful not to melt the welding points of the varistor and the resin coating.

Material category policy

All our Varistor products hereby certify that RoHS-compliant products are in accordance with the definitions and

Restrictions on June 8, 2011 regarding restrictions on the use of certain hazardous substances (Reach) in electrical and electronic equipment. We confirm All our Varistor products comply with the IEC 61249-2-21 JEDEC JS709A standard.