

Metal Oxide Varistors (MOV) Data sheet

Features

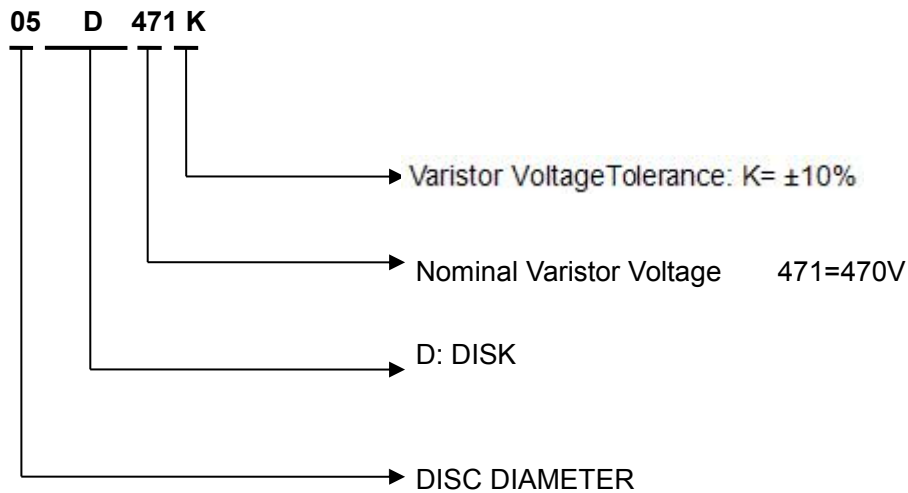
- Wide operating voltage (V1mA) range from 18V to 750V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Low clamping ratio and no follow-on current
- Meets MSL level 1, per J-STD-020
- Safety certification: UL,CSA,VDE
- Operating Temperature: -40°C ~ +85°C
- Storage Temperature: -40°C ~ +125°C



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



Electrical Characteristics

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Withstanding Surge Current	Maximum Energy (10/1000µs)	Rated Power	Typical Capacitance (Reference)
	V _{AC} (V)	V _{DC} (V)		V _{1mA} (V)	I _P (A)				
	Standard					I(A) Standard	(J) Standard	(W)	1KHz(pf)
05D180K	11	14	18(15~21.6)	1	40	100	0.4	0.01	1400
05D220K	14	18	22(19.5~26)	1	48	100	0.5	0.01	1150
05D270K	17	22	27(24~30)	1	60	100	0.6	0.01	930
10K330K	20	26	33(29.5~36.5)	1	73	100	0.8	0.01	760
05D390K	25	31	39(35~43)	1	80	100	0.9	0.01	640
05D470K	30	38	47(42~54)	1	104	100	1.1	0.01	530
05D560K	35	45	56(50~62)	1	123	100	1.3	0.01	450
05D680K	40	56	68(61~75)	1	145	100	1.6	0.01	370
05D820K	50	65	82(74~90)	5	150	400	2.5	0.1	300
05D101K	60	85	100(90~110)	5	177	400	3.0	0.1	250
05D121K	75	100	120(108~132)	5	210	400	4.0	0.1	210
05D151K	95	125	150(135~165)	5	260	400	4.1	0.1	165
05D181K	115	150	180(162~198)	5	320	400	4.9	0.1	140
05D201K	130	170	200(180~220)	5	355	400	6.5	0.1	125
05D221K	140	180	220(198~242)	5	380	400	7.5	0.1	110
05D241K	150	200	240(216~264)	5	415	400	8.0	0.1	100
05D271K	175	225	270(243~297)	5	475	400	8.5	0.1	95
05D301K	190	250	300(270~330)	5	520	400	9.0	0.1	85
05D331K	210	275	330(297~363)	5	570	400	9.5	0.1	75
05D361K	230	300	360(324~396)	5	620	400	10.0	0.1	70
05D391K	250	320	390(351~429)	5	675	400	12.0	0.1	65
05D431K	275	350	430(387~473)	5	745	400	13.0	0.1	60
05D471K	300	385	470(423~517)	5	810	400	15.0	0.1	55
05D511K	320	415	510(459~561)	5	845	400	16.0	0.1	50
05D561K	350	460	560(504~616)	5	920	400	16.0	0.1	45
05D621K	385	505	620(558~682)	5	1025	400	21.0	0.1	40
05D681K	420	560	680(612~748)	5	1120	400	21.0	0.1	35
05D751K	460	615	750(675~825)	5	1240	400	22.4	0.1	30

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Dimension(mm)

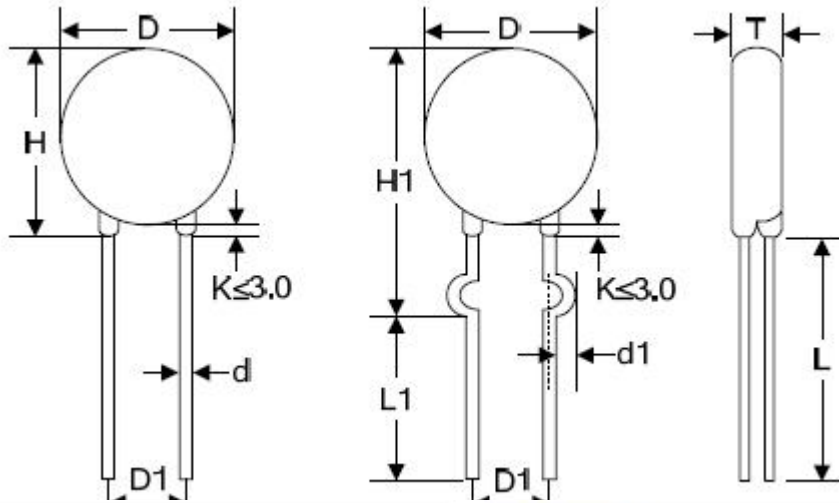


TABLE 1

Symbol	Dimensions
H(max.)	10.5
H1(max.)	13.0
L(min.)	20.0
L1(min.)	15.0
D(max.)	7.5
D1(±0.8)	5.0
T(max.)	TABLE 2
d(±0.05)	0.6
d1(±0.4)	1.2

TABLE 2

Model	T(max.)	Model	T(max.)
180K	4.5	221K	4.5
220K	4.6	241K	4.6
270K	4.7	271K	4.9
330K	4.9	301K	5.0
390K	4.8	331K	5.1
470K	4.9	361K	5.2
560K	5.0	391K	5.4
680K	5.2	431K	5.7
820K	4.1	471K	6.0
101K	4.3	511K	6.2
121K	4.5	561K	6.5
151K	4.8	621K	6.5
181K	4.3	681K	6.87
201K	4.4	751K	6.9

Packing Information

Part Number	Quantity	Packaging Option	Packaging Specification
05DxxxK	1000	Plastic bag	Bulk Pack

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