Metal Oxide Varistors (MOV)Data sheet

Features

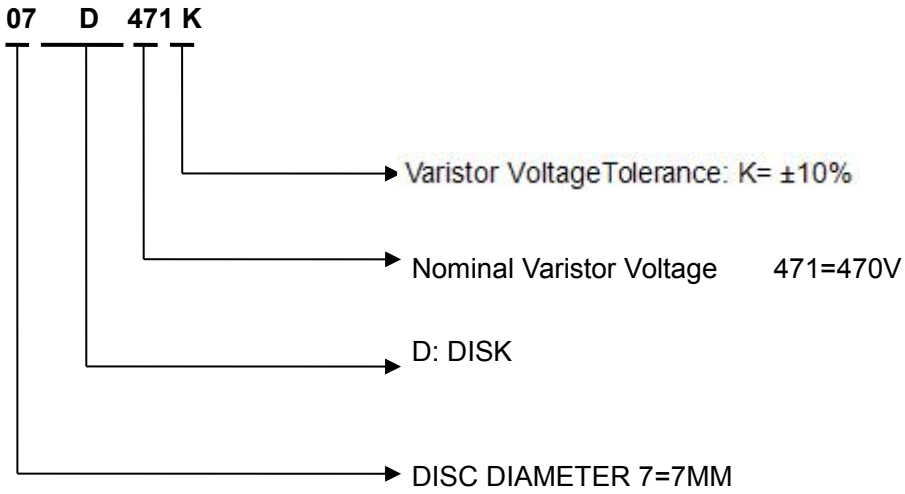
·Wide operating voltage (V1mA) range from 18V to 820V
·Fast responding to transient over-voltage
·Large absorbing transient energy capability
·Low clamping ratio and no follow-on current
·Meets MSL level 1, per J-STD-020
·Safety certification: UL1414,UL1449,CSA,VDE
·Operating Temperature：-40℃ ~ +85℃
·Storage Temperature：-40℃ ~ +125℃



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



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Electrical Characteristics

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Withstanding Surge Current	Maximum Energy (10/1000μs)	Rated Power	Typical Capacitance (Reference)
Standard	V_{AC}(V)	V_{DC}(V)	V_{1mA}(V)	I_P(A)	Vc(V)	I(A) Standard	(J) Standard	(W)	1KHz(pf)
07D180K	11	14	18(15~21.6)	2.5	36	250	0.9	0.02	2800
07D220K	14	18	22(19.5~26)	2.5	43	250	1.1	0.02	2300
07D270K	17	22	27(24~30)	2.5	53	250	1.4	0.02	1800
10K330K	20	26	33(29.5~36.5)	2.5	66	250	1.7	0.02	1500
07D390K	25	31	39(35~43)	2.5	77	250	2.1	0.02	1300
07D470K	30	38	47(42~54)	2.5	93	250	2.5	0.02	1100
07D560K	35	45	56(50~62)	2.5	100	250	3.1	0.02	890
07D680K	40	56	68(61~75)	2.5	135	250	3.6	0.02	740
07D820K	50	65	82(74~90)	10	135	1200	5.0	0.25	600
07D101K	60	85	100(90~110)	10	165	1200	6.5	0.25	500
07D121K	75	100	120(108~132)	10	200	1200	7.8	0.25	420
07D151K	95	125	150(135~165)	10	250	1200	9.7	0.25	330
07D181K	115	150	180(162~198)	10	300	1200	11.7	0.25	280
07D201K	130	170	200(180~220)	10	340	1200	13.0	0.25	250
07D221K	140	180	220(198~242)	10	360	1200	14.0	0.25	230
07D241K	150	200	240(216~264)	10	395	1200	15.0	0.25	210
07D271K	175	225	270(243~297)	10	455	1200	18.0	0.25	185
07D301K	190	250	300(270~330)	10	500	1200	20.0	0.25	165
07D331K	210	275	330(297~363)	10	550	1200	23.0	0.25	150
07D361K	230	300	360(324~396)	10	595	1200	25.0	0.25	140
07D391K	250	320	390(351~429)	10	650	1200	25.0	0.25	130
07D431K	275	350	430(387~473)	10	710	1200	28.0	0.25	115
07D471K	300	385	470(423~517)	10	775	1200	30.0	0.25	105
07D511K	320	415	510(459~561)	10	845	1200	30.0	0.25	100
07D561K	350	460	560(504~616)	10	925	1200	30.0	0.25	90
07D621K	385	505	620(558~682)	10	1025	1200	33.0	0.25	80
07D681K	420	560	680(612~748)	10	1120	1200	33.0	0.25	75
07D751K	460	615	750(675~825)	10	1240	1200	67.2	0.25	70
07D781K	485	640	780(702~858)	10	1290	1200	67.2	0.25	70
07D821K	510	670	820(738~902)	10	1355	1200	67.2	0.25	60

Dimension(mm)

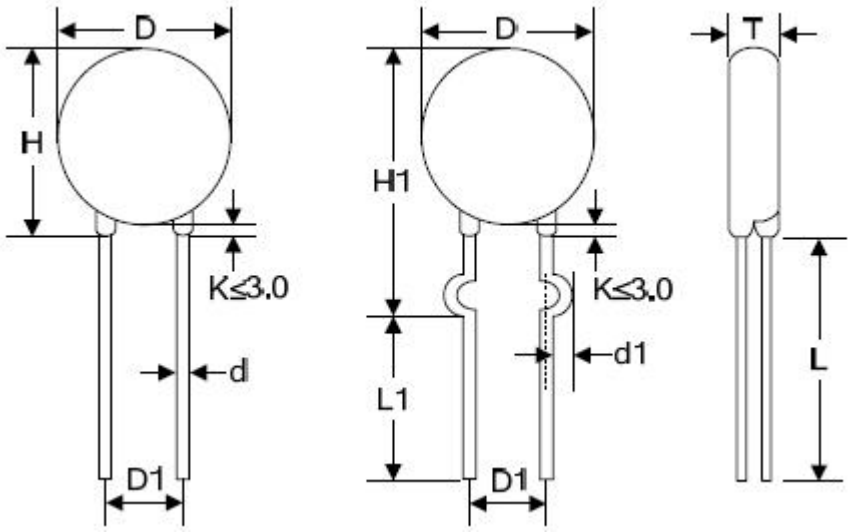


TABLE 1

Symbol	Dimensions
H(max.)	12.0
H1(max.)	13.5
L(min.)	20.0
L1(min.)	15.0
D(max.)	9.0
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	241K	4.6
220K	4.6	271K	4.9
270K	4.7	301K	5.0
330K	4.9	331K	5.1
390K	4.8	361K	5.2
470K	4.9	391K	5.4
560K	5.0	431K	5.7
680K	5.2	471K	6.0
820K	4.1	511K	6.2
101K	4.3	561K	6.5
121K	4.5	621K	7.1
151K	4.8	681K	7.3
181K	4.3	751K	7.06
201K	4.4	781K	7.24
221K	4.5	821K	7.48

Packing Information

Part Number	Quantity	Packaging Option	Packaging Specification
07DxxxK	1000	Plastic bag	Bulk Pack

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