

MDE Semiconductor, Inc. Circuit Protection Products

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Metal Oxide Varistors

Standard D Series 5 mm Disc

PART NUMBER	Varistor Voltage		Maximum Allowable Voltage		Max Clamping Voltage (8/20 μ S)		Energy		Max Peak Current (8/20 μ S)		Rated Power (w)	Typical Capacitance (Reference) 1kHz (pF)
	V@1mA (v)	ACrms (v)	DC (v)	V@5A (v)	I _p (A)	10/1000 (μ s) (J)	2ms (J)	1 time (A)	2 times (A)			
MDE-5D180M	18	16-20	11	14	•40	1	0.6	0.4	250	125	0.01	1,600
MDE-5D220M	22	20-24	14	18	•48	1	0.7	0.5	250	125	0.01	1,500
MDE-5D270K	27	24-30	17	22	•60	1	0.9	0.7	250	125	0.01	1,450
MDE-5D330K	33	30-36	20	26	•73	1	1.1	0.8	250	125	0.01	1,400
MDE-5D390K	39	35-43	25	31	•86	1	1.2	0.9	250	125	0.01	700
MDE-5D470K	47	42-52	30	38	•104	1	1.5	1.1	250	125	0.01	650
MDE-5D560K	56	50-62	35	45	•123	1	1.8	1.3	250	125	0.01	600
MDE-5D680K	68	61-75	40	56	•150	1	2.2	1.6	250	125	0.01	580
MDE-5D820K	82	74-90	50	65	145	5	3.5	0.5	800	600	0.1	310
MDE-5D101K	100	90-110	60	85	175	5	2.0	3.0	800	600	0.1	290
MDE-5D121K	120	108-132	75	100	210	5	2.0	3.5	800	600	0.1	270
MDE-5D151K	150	135-165	95	125	260	5	2.5	4.5	800	600	0.1	240
MDE-5D181K	180	162-198	115	150	325	5	2.5	5.2	800	600	0.1	140
MDE-5D201K	200	185-225	130	170	355	5	2.5	6.0	800	600	0.1	120
MDE-5D221K	220	198-242	140	180	380	5	9.0	6.5	800	600	0.1	110
MDE-5D241K	240	216-264	150	200	415	5	10.5	7.5	800	600	0.1	110
MDE-5D271K	270	247-303	175	225	475	5	11.0	8.0	800	600	0.1	100
MDE-5D301K	300	270-330	195	250	505	5	12.0	8.8	800	600	0.1	100
MDE-5D331K	330	297-363	210	275	600	5	13.0	9.5	800	600	0.1	90
MDE-5D361K	360	324-396	230	300	620	5	16.0	11.0	800	600	0.1	80
MDE-5D391K	390	351-429	250	320	675	5	17.0	12.0	800	600	0.1	80
MDE-5D431K	430	387-473	275	350	745	5	20.0	15.0	800	600	0.1	70
MDE-5D471K	470	423-517	300	385	810	5	21.0	15.0	800	600	0.1	70

•The clamping voltage from 180K to 680K is tested with current @ 1A.

