

MDE Semiconductor, Inc. Circuit Protection Products

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Metal Oxide Varistors

Standard D Series 10 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)	16-20	ACrms (v)	DC (v)	V@25A (v)	Ip (A)	10/1000 (μ s) (J)	2ms (J)	1 time (A)	2 times (A)		
MDE-10D180M	18	16-20	11	14	•36	5	2.6	2.2	1000	500	0.05	16,000
MDE-10D220M	22	20-24	14	18	•43	5	2.2	2.6	1000	500	0.05	11,000
MDE-10D270K	27	24-30	17	22	•53	5	3.9	3.2	1000	500	0.05	8,000
MDE-10D330K	33	30-36	20	26	•65	5	4.8	4	1000	500	0.05	6,300
MDE-10D390K	39	35-43	25	31	•77	5	5.6	4.7	1000	500	0.05	5,200
MDE-10D470K	47	42-52	30	38	•93	5	6.8	5.6	1000	500	0.05	4,600
MDE-10D560K	56	50-62	35	45	•110	5	8.1	6.7	1000	500	0.05	3,750
MDE-10D680K	68	61-75	40	56	•135	5	9.8	8.2	1000	500	0.05	2,800
MDE-10D820K	82	74-90	50	65	135	25	14.0	10.0	3500	2500	0.40	1,920
MDE-10D101K	100	90-110	60	85	165	25	17.0	12.0	3500	2500	0.40	1,800
MDE-10D121K	120	108-132	75	100	200	25	20.0	14.5	3500	2500	0.40	1,500
MDE-10D151K	150	135-165	95	125	250	25	25.0	18.0	3500	2500	0.40	1,200
MDE-10D181K	180	162-198	115	150	300	25	32.0	21.0	3500	2500	0.40	620
MDE-10D201K	200	185-225	130	170	340	25	35.0	25.0	3500	2500	0.40	570
MDE-10D221K	220	198-242	140	180	360	25	39.0	27.5	3500	2500	0.40	550
MDE-10D241K	240	216-264	150	200	395	25	42.0	30.0	3500	2500	0.40	550
MDE-10D271K	270	247-303	175	225	455	25	49.0	35.0	3500	2500	0.40	530
MDE-10D301K	300	270-330	195	250	500	25	53.0	38.0	3500	2500	0.40	500
MDE-10D331K	330	297-363	210	275	550	25	58.0	42.0	3500	2500	0.40	450
MDE-10D361K	360	324-396	230	300	595	25	65.0	45.0	3500	2500	0.40	450
MDE-10D391K	390	351-429	250	320	650	25	70.0	50.0	3500	2500	0.40	450
MDE-10D431K	430	387-473	275	350	710	25	80.0	55.0	3500	2500	0.40	400
MDE-10D471K	470	423-517	300	385	775	25	85.0	60.0	3500	2500	0.40	300
MDE-10D511K	510	459-561	320	410	845	25	92.0	67.0	3500	2500	0.40	260
MDE-10D561K	560	504-616	350	460	915	25	92.0	67.0	3500	2500	0.40	200
MDE-10D621K	620	558-682	385	505	1025	25	92.0	67.0	3500	2500	0.40	170
MDE-10D681K	680	612-748	420	560	1120	25	92.0	67.0	3500	2500	0.40	160
MDE-10D751K	750	675-825	460	615	1240	25	100.0	70.0	3500	2500	0.40	150
MDE-10D781K	780	702-858	485	640	1290	25	105.0	75.0	3500	2500	0.40	150
MDE-10D821K	820	738-902	510	670	1355	25	110.0	80.0	3500	2500	0.40	150
MDE-10D911K	910	819-1001	550	745	1500	25	130.0	90.0	3500	2500	0.40	140
MDE-10D951K	950	855-1005	575	765	1580	25	135.0	95.0	3500	2500	0.40	140
MDE-10D102K	1000	900-1100	625	825	1650	25	140.0	100.0	3500	2500	0.40	140
MDE-10D112K	1100	990-1210	680	895	1815	25	155.0	110.0	3500	2500	0.40	155
MDE-10D182K	1800	1620-1980	1000	1465	2970	25	247.0	183.0	3500	2500	0.40	70

•The clamping voltage from 180K to 680K is tested with current @ 5A.

