

# MDE Semiconductor, Inc. Circuit Protection Products

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## Metal Oxide Varistors

### Standard D Series 7 mm Disc

PART NUMBER	Varistor Voltage		Maximum Allowable Voltage		Max Clamping Voltage (8/20 $\mu$ S)		Energy		Max Peak Current (8/20 $\mu$ S)		Rated Power (w)	Typical Capacitance (Reference) (kHz (pF))
	V@1mA (v)	ACrms (v)	DC (v)	V@10A (v)	I <sub>p</sub> (A)	10/1000 ( $\mu$ s) (J)	2ms (J)	1 time (A)	2 times (A)			
MDE-7D180M	18	16-20	11	14	•36	2.5	1.1	0.9	500	250	0.02	3,800
MDE-7D220M	22	20-24	14	18	•43	2.5	1.3	1.0	500	250	0.02	3,600
MDE-7D270K	27	24-30	17	22	•53	2.5	1.6	1.3	500	250	0.02	3,400
MDE-7D330K	33	30-36	20	26	•65	2.5	2.0	1.6	500	250	0.02	2,900
MDE-7D390K	39	35-43	25	31	•77	2.5	2.4	1.9	500	250	0.02	1,600
MDE-7D470K	47	42-52	30	38	•93	2.5	2.8	2.3	500	250	0.02	1,550
MDE-7D560K	56	50-62	35	45	•110	2.5	3.4	2.7	500	250	0.02	1,500
MDE-7D680K	68	61-75	40	56	•135	2.5	4.1	3.3	500	250	0.02	1,200
MDE-7D820K	82	74-90	50	65	135	10	7.0	5.0	1750	1250	0.25	860
MDE-7D101K	100	90-110	60	85	165	10	8.5	6.0	1750	1250	0.25	750
MDE-7D121K	120	108-132	75	100	200	10	10.0	7.0	1750	1250	0.25	530
MDE-7D151K	150	135-165	95	125	250	10	13.0	9.0	1750	1250	0.25	410
MDE-7D181K	180	162-198	115	150	340	10	15.0	10.4	1750	1250	0.25	300
MDE-7D201K	200	185-225	130	170	340	10	17.5	12.5	1750	1250	0.25	250
MDE-7D221K	220	198-242	140	180	360	10	19.0	13.5	1750	1250	0.25	240
MDE-7D241K	240	216-264	150	200	395	10	21.0	15.0	1750	1250	0.25	240
MDE-7D271K	270	247-303	175	225	455	10	24.0	17.0	1750	1250	0.25	220
MDE-7D301K	300	270-330	195	250	500	10	26.0	18.5	1750	1250	0.25	190
MDE-7D331K	330	297-363	210	275	550	10	28.0	20.0	1750	1250	0.25	170
MDE-7D361K	360	324-396	230	300	595	10	32.0	23.0	1750	1250	0.25	180
MDE-7D391K	390	351-429	250	320	650	10	35.0	25.0	1750	1250	0.25	160
MDE-7D431K	430	387-473	275	350	710	10	40.0	27.5	1750	1250	0.25	150
MDE-7D471K	470	423-517	300	385	775	10	42.0	30.0	1750	1250	0.25	130
MDE-7D511K	510	459-561	320	410	845	10	45.0	32.0	1750	1250	0.25	120
MDE-7D561K	560	504-616	350	460	915	10	45.0	32.0	1750	1250	0.25	120
MDE-7D621K	620	558-682	385	505	1025	10	45.0	32.0	1750	1250	0.25	120
MDE-7D681K	680	612-748	420	560	1120	10	53.0	40.0	1750	1250	0.25	120

•The clamping voltage from 180K to 680K is tested with current @ 2.5A.

