

# MDE Semiconductor, Inc. Circuit Protection Products

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## Metal Oxide Varistors

### Standard D Series 20 mm Disc

PART NUMBER	Varistor Voltage V@1mA (v)		Maximum Allowable Voltage		Max Clamping Voltage (8/20 μ S)		Max. Energy (J)		Max. Peak Current (8/20 μ S)		Rated Power (w)	Typical Capacitance (Reference) 1kHz (pF)
			ACrms (v)	DC (v)	Vc (v)	Ip (A)	10/1000 μS	2ms	1 time (A)	2 times (A)		
MDE-20D180M	18	16-20	11	14	36	20	13	12	3000	2000	0.2	40,000
MDE-20D220M	22	20-24	14	18	43	20	16	14	3000	2000	0.2	30,000
MDE-20D270K	27	24-30	17	22	53	20	19	17	3000	2000	0.2	24,500
MDE-20D330K	33	30-36	20	26	65	20	24	21	3000	2000	0.2	20,000
MDE-20D390K	39	35-43	25	31	77	20	28	25	3000	2000	0.2	13,800
MDE-20D470K	47	42-52	30	38	93	20	34	30	3000	2000	0.2	13,500
MDE-20D560K	56	50-62	35	45	110	20	41	36	3000	2000	0.2	12,200
MDE-20D680K	68	61-75	40	56	135	20	49	44	3000	2000	0.2	11,500
MDE-20D820K	82	74-90	50	65	135	100	56	40	10000	7000	1.0	820
MDE-20D101K	100	90-110	60	85	165	100	70	50	10000	7000	1.0	8,000
MDE-20D121K	120	108-132	75	100	200	100	85	60	10000	7000	1.0	5,500
MDE-20D151K	150	135-165	95	125	250	100	106	75	10000	7000	1.0	4,200
MDE-20D181K	180	162-198	115	150	300	100	130	84	10000	7000	1.0	2,500
MDE-20D201K	200	185-225	130	170	340	100	140	100	10000	7000	1.0	2,300
MDE-20D221K	220	198-242	140	180	360	100	155	110	10000	7000	1.0	2,200
MDE-20D241K	240	216-264	150	200	395	100	168	120	10000	7000	1.0	2,200
MDE-20D271K	270	247-303	175	225	455	100	190	135	10000	7000	1.0	2,100
MDE-20D301K	300	270-330	195	250	500	100	216	148	10000	7000	1.0	1,800
MDE-20D331K	330	297-363	210	275	550	100	228	160	10000	7000	1.0	1,750
MDE-20D361K	360	324-396	230	300	595	100	255	180	10000	7000	1.0	1,700
MDE-20D391K	390	351-429	250	320	650	100	275	195	10000	7000	1.0	1,400
MDE-20D431K	430	387-473	275	350	710	100	303	215	10000	7000	1.0	1,350
MDE-20D471K	470	423-517	300	385	775	100	350	250	10000	7000	1.0	1,200
MDE-20D511K	510	459-561	320	410	845	100	382	273	10000	7000	1.0	1,050
MDE-20D561K	560	504-616	350	460	920	100	385	277	10000	7000	1.0	900
MDE-20D621K	620	558-682	385	505	1025	100	382	273	7500	6500	1.0	570
MDE-20D681K	680	612-748	420	560	1120	100	382	273	7500	6500	1.0	550
MDE-20D751K	750	657-825	460	615	1240	100	420	300	7500	6500	1.0	530
MDE-20D781K	780	702-858	485	640	1290	100	445	315	7500	6500	1.0	530
MDE-20D821K	820	738-902	510	670	1355	100	460	325	7500	6500	1.0	530
MDE-20D911K	910	819-1001	550	745	1500	100	510	360	7500	6500	1.0	480
MDE-20D951K	950	855-1045	575	765	1580	100	535	380	7500	6500	1.0	480
MDE-20D102K	1000	900-1100	625	825	1650	100	565	400	7500	6500	1.0	480
MDE-20D112K	1100	990-1210	680	895	1815	100	620	440	7500	6500	1.0	400
MDE-20D122K	1200	1090-1310	750	965	1980	100	680	480	7500	6500	1.0	375
MDE-20D182K	1800	1620-1980	1000	1465	2970	100	1020	720	7500	6500	1.0	250

