

Disk Varistors

Maximum ratings ($T_A = 85\text{ }^\circ\text{C}$)

Type	Ordering code	Operating voltage		Surge current	Energy absorption	Power dissipation
		V_{RMS}	V_{DC}	i_{max} 8/20 μs	W_{max} (2 ms)	P_{max}
		V	V	A	J	W
SIOV-SR1210M4S	Q69535-R40-M	4	5.5	250	0.3	0.01
SIOV-SR2220M4S	Q69545-R40-M	4	5.5	1000	1.5	0.02
SIOV-SR1210M6S	Q69535-R60-M	6	8	250	0.5	0.01
SIOV-SR2220M6S	Q69545-R60-M	6	8	1000	2.8	0.02
SIOV-SR1210L8S	Q69535-R80-L	8	11	250	0.7	0.01
SIOV-SR2220L8S	Q69545-R80-L	8	11	1000	4.0	0.02
SIOV-S05K11	Q69X3445	11	14	100	0.3	0.01
SIOV-S07K11	Q69X3446	11	14	250	0.8	0.02
SIOV-S10K11	Q69X3455	11	14	500	1.7	0.05
SIOV-S14K11	Q69X3456	11	14	1000	3.2	0.10
SIOV-S20K11	Q69X3457	11	14	2000	10.0	0.20
SIOV-S05K14	Q69X3422	14	18	100	0.4	0.01
SIOV-S07K14	Q69X3447	14	18	250	0.9	0.02
SIOV-S10K14	Q69X3011	14	18	500	2.0	0.05
SIOV-S14K14	Q69X3018	14	18	1000	4.0	0.10
SIOV-S20K14	Q69X3458	14	18	2000	12.0	0.20
SIOV-S05K17	Q69X3423	17	22	100	0.5	0.01
SIOV-S07K17	Q69X3448	17	22	250	1.1	0.02
SIOV-S10K17	Q69X3012	17	22	500	2.5	0.05
SIOV-S14K17	Q69X3019	17	22	1000	5.0	0.10
SIOV-S20K17	Q69X3459	17	22	2000	14.0	0.20
SIOV-S05K20	Q69X3424	20	26	100	0.6	0.01
SIOV-S07K20	Q69X3449	20	26	250	1.3	0.02
SIOV-S10K20	Q69X3013	20	26	500	3.1	0.05
SIOV-S14K20	Q69X3020	20	26	1000	6.0	0.10
SIOV-S20K20	Q69X3460	20	26	2000	18.0	0.20
SIOV-S05K25	Q69X3425	25	31	100	0.7	0.01
SIOV-S07K25	Q69X3450	25	31	250	1.6	0.02
SIOV-S10K25	Q69X3014	25	31	500	3.7	0.05
SIOV-S14K25	Q69X3021	25	31	1000	7.0	0.10
SIOV-S20K25	Q69X3461	25	31	2000	22.0	0.20

The dimensions of the varistors listed above are given on page 99.

Characteristics ($T_A = 25\text{ }^\circ\text{C}$)

Varistor voltage V_V (1 mA) V	Tolerance ΔV_V (1 mA) %	Max. clamping voltage		Capacitance typ. C (1 kHz) pF	Derating curves Page	V/I characteristic Page
		v V	i A			
8	M = ± 20	17	2.5	5000	129	136
8	M = ± 20	17	10.0	24000	131	137
11	M = ± 20	27	2.5	4000	129	136
11	M = ± 20	27	10.0	20000	131	137
15	L = ± 15	35	2.5	3000	129	136
15	L = ± 15	35	10.0	16000	131	137
18	K = ± 10	36	1.0	1600	128	136
18	K = ± 10	36	2.5	3100	129	137
18	K = ± 10	36	5.0	6800	130	138
18	K = ± 10	36	10.0	11000	131	139
18	K = ± 10	36	20.0	18000	134	140
22	K = ± 10	43	1.0	1300	128	136
22	K = ± 10	43	2.5	2500	129	137
22	K = ± 10	43	5.0	5200	130	138
22	K = ± 10	43	10.0	9000	131	139
22	K = ± 10	43	20.0	15000	134	140
27	K = ± 10	53	1.0	1050	128	136
27	K = ± 10	53	2.5	1900	129	137
27	K = ± 10	53	5.0	4000	130	138
27	K = ± 10	53	10.0	7000	131	139
27	K = ± 10	53	20.0	13000	134	140
33	K = ± 10	65	1.0	750	128	136
33	K = ± 10	65	2.5	1500	129	137
33	K = ± 10	65	5.0	3100	130	138
33	K = ± 10	65	10.0	5500	131	139
33	K = ± 10	65	20.0	11000	134	140
39	K = ± 10	77	1.0	660	128	136
39	K = ± 10	77	2.5	1250	129	137
39	K = ± 10	77	5.0	2800	130	138
39	K = ± 10	77	10.0	4600	131	139
39	K = ± 10	77	20.0	8600	134	140