

Description

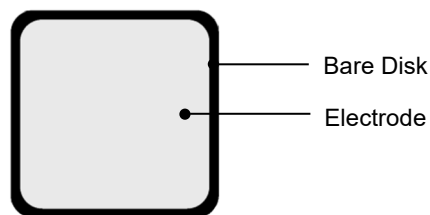
Metal Oxide Varistor (MOV) is a nonlinear resistance component with zinc oxide (ZnO) as its main constituent. The resistance of an MOV is sensitive to changes in the applied voltage. Below the threshold voltage, the MOV exhibits high resistance, allowing only a negligibly small leakage current to flow. Once the threshold voltage is exceeded, the resistance of the MOV drops sharply, enabling the conduction of a large current. This characteristic makes the MOV suitable for detecting and suppressing surge voltage and overvoltage, thereby protecting the circuit from damage caused by excessive voltage.

The Metal Oxide Varistor (MOV) finds wide application in various fields such as photovoltaics, communication, lightning protection, power supply, and power strips. It serves to suppress transient overvoltage and absorb surge energy within the circuit.

SETsafe | SETfuse offers Metal Oxide Varistors (MOV) with maximum peak current ratings ranging from 20 kA to 80 kA, and maximum continuous voltage ratings from 130VAC to 750 VAC. Safety certification includes UL, cUL, and complies with RoHS and REACH requirements.



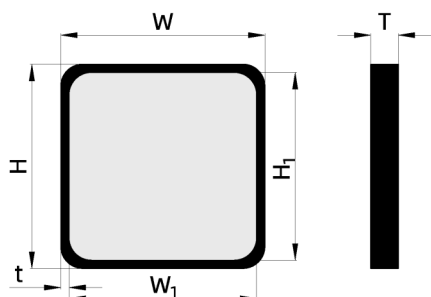
Product Structure



Agency Approvals

Agency	Standards	No.
	UL 1449 4 th Edition	On-going
	CSA C22.2 NO.269.5-17	On-going

Dimensions (mm)



W	W ₁	H	H ₁	t (min.)
36.5±0.8	34.0±0.5	36.5±0.8	34.0±0.5	0.8

* Various electrode shapes of uncoated MOV or coated MOV can be customized

Specification

Model	Surge Level	Max. Continuous Operating Voltage		Varistor Voltage @1 mA DC		Clamping Voltage (Max.)		Max. Discharge Current (8/20 μs)		Max. Energy (10/1000 μs)	Typical Capacitance (Reference) @1 kHz
		VAC	VDC	Min.	Max.	V _C	I _p	I _n	I _{max}	(J)	(pF)
		(V)	(V)	(V)	(V)	(V)	(A)	(kA)	(kA)		
YMJ37S241K	K	150	200	216	264	395	400	30	60	720	6215
YMJ37S271K	K	175	225	243	297	455	400	30	60	810	5610
YMJ37S301K	K	190	250	270	330	500	400	30	60	900	4960
YMJ37S331K	K	210	275	297	363	550	400	30	60	980	4565
YMJ37S361K	K	230	300	324	396	595	400	30	60	1125	4125
YMJ37S391K	K	250	320	351	429	650	400	30	60	1250	3850
YMJ37S431K	K	275	350	387	473	710	400	30	60	1380	3245
YMJ37S471K	K	300	385	423	517	775	400	30	60	1500	3120
YMJ37S511K	K	320	415	459	561	845	400	30	60	1590	2915
YMJ37S561K	K	350	460	504	616	925	400	30	60	1725	2695
YMJ37S621K	K	385	505	558	682	1025	400	30	60	1875	2420
YMJ37S681K	K	420	560	612	748	1120	400	30	60	1875	2200
YMJ37S711K	K	440	585	639	781	1170	400	30	60	1875	2100
YMJ37S751K	K	460	615	675	825	1240	400	30	60	1920	2000
YMJ37S821K	K	510	670	738	902	1355	400	30	60	1950	1980
YMJ37S911K	K	550	745	819	1001	1500	400	30	60	2200	1650
YMJ37S951K	K	575	760	855	1045	1565	400	30	60	2250	1550
YMJ37S102K	K	625	825	900	1100	1650	400	30	60	2325	1485
YMJ37S112K	K	680	895	990	1210	1815	400	30	60	2625	1355
YMJ37S122K	K	750	990	1080	1320	1980	400	30	60	2750	1250

★We have specified product for DC application, please make a note when purchasing.

MOV Disk-Lightning Protection Type For T2 Feature & Model List Overview

Nominal Operating Voltage U_n (V)		Model				Maximum Continuous Operating Voltage U_n (V)	
		YMJ25D	YMJ37S	YMJ53D	YMJ40S	AC	DC
500V	480V	YMJ25D122K	YMJ37S122K	YMJ53D122K	YMJ40S122K	750	990
	415V	YMJ25D112K	YMJ37S112K	YMJ53D112K	YMJ40S112K	680	895
		YMJ25D102K	YMJ37S102K	YMJ53D102K	YMJ40S102K	625	825
	380V	YMJ25D911K	YMJ37S911K	YMJ53D911K	YMJ40S911K	550	745
		YMJ25D821K	YMJ37S821K	YMJ53D821K	YMJ40S821K	510	670
	100V	YMJ25D751K	YMJ37S751K	YMJ53D751K	YMJ40S751K	460	615
		YMJ25D681K	YMJ37S681K	YMJ53D681K	YMJ40S681K	420	560
	240V	YMJ25D621K	YMJ37S621K	YMJ53D621K	YMJ40S621K	385	505
		YMJ25D561K	YMJ37S561K	YMJ53D561K	YMJ40S561K	350	460
	100V	YMJ25D511K	YMJ37S511K	YMJ53D511K	YMJ40S511K	320	415
YMJ25D471K		YMJ37S471K	YMJ53D471K	YMJ40S471K	300	385	
220V	YMJ25D431K	YMJ37S431K	YMJ53D431K	YMJ40S431K	275	350	
	YMJ25D391K	YMJ37S391K	YMJ53D391K	YMJ40S391K	250	320	
100V	YMJ25D361K	YMJ37S361K	YMJ53D361K	YMJ40S361K	230	300	
	YMJ25D331K	YMJ37S331K	YMJ53D331K	YMJ40S331K	210	275	
250V	YMJ25D301K	YMJ37S301K	YMJ53D301K	YMJ40S301K	190	250	
	YMJ25D271K	YMJ37S271K	YMJ53D271K	YMJ40S271K	175	225	
120V	YMJ25D241K	YMJ37S241K	YMJ53D241K	YMJ40S241K	150	200	
	YMJ25D221K	○	○	○	140	180	
100V	YMJ25D201K	○	○	○	130	170	
	○	○	○	○	115	150	
48V	○	○	○	○	95	125	
	○	○	○	○	75	100	
24V	○	○	○	○	60	85	
	○	○	○	○	50	65	
12V	○	○	○	○	40	56	
	○	○	○	○	35	45	
12V	○	○	○	○	30	38	
	○	○	○	○	25	31	
12V	○	○	○	○	20	26	
	○	○	○	○	17	22	
12V	○	○	○	○	14	18	
	○	○	○	○			