

Metal Oxide Varistors (MOV)



RoHS

Features

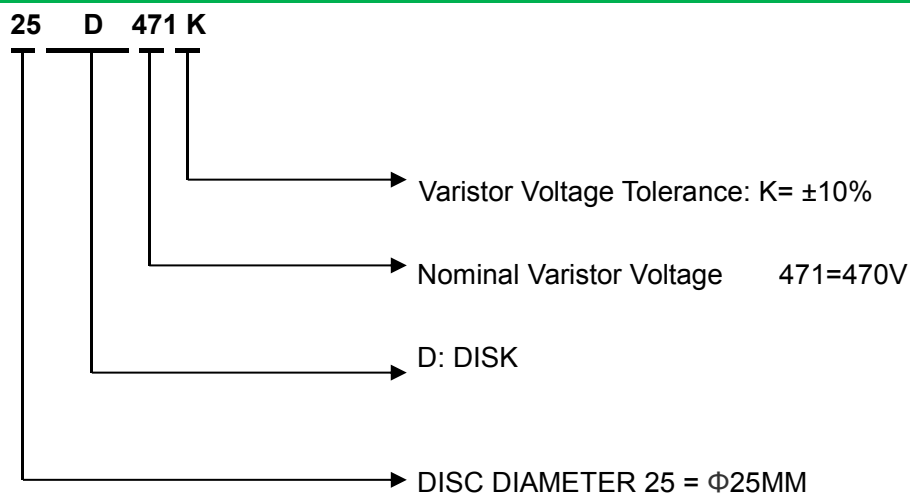
- Wide operating voltage (V1mA) range from 82V to 1800V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Low clamping ratio and no follow-on current
- Meets MSL level 1, per J-STD-020
- Operating Temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Storage Temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- UL 1449 4th for SPD Type 5 application
- Safety certification:



Applications

- Transistor, diode, IC, thyristor or triac semiconductor protection
- Surge protection in consumer electronics
- Surge protection in industrial electronics
- Surge protection in electronic home appliances, gas and petroleum appliances
- Relay and electromagnetic valve surge absorption

Description of Part Number



Delivery Time

Standard MOV	Delivery Time
25D820K~25D182K	22days

Electrical Characteristics



Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Max Surge Current 8/20μs	Surge Operating Duty Test IEC 61643-11 (8/20μs)		Maximum Energy 10/1000μs (J)	Rated Power (W)	Safety Certification
	V _{AC} (V)	V _{DC} (V)		I _P (A)	V _C (V)		I _{max}	I _n			
25D820K	50	65	82 (73.8~90.2)	150	135	20KA	20KA	10KA	96	1.2	-
25D101K	60	85	100 (90~110)	150	165	20KA	20KA	10KA	120	1.2	-
25D121K	75	100	120 (108~132)	150	200	20KA	20KA	10KA	144	1.2	-
25D151K	95	125	150 (135~165)	150	250	20KA	20KA	10KA	192	1.2	-
25D181K	115	150	180 (162~198)	150	300	20KA	20KA	10KA	210	1.2	-
25D201K	130	170	200 (185~225)	150	330	20KA	20KA	10KA	228	1.2	√
25D221K	140	180	220 (198~242)	150	360	20KA	20KA	10KA	240	1.2	√
25D241K	150	200	240 (216~264)	150	395	20KA	20KA	10KA	264	1.2	√
25D271K	175	225	270 (243~297)	150	455	20KA	20KA	10KA	306	1.2	√
25D301K	190	250	300 (270~330)	150	505	20KA	20KA	10KA	330	1.2	√
25D331K	210	275	330 (297~363)	150	550	20KA	20KA	10KA	360	1.2	√
25D361K	230	300	360 (324~396)	150	595	20KA	20KA	10KA	396	1.2	√
25D391K	250	320	390 (351~429)	150	650	20KA	20KA	10KA	432	1.2	√
25D431K	275	350	430 (387~473)	150	710	20KA	20KA	10KA	456	1.2	√
25D471K	300	385	470 (423~517)	150	775	20KA	20KA	10KA	480	1.2	√
25D511K	320	415	510 (459~561)	150	845	20KA	20KA	10KA	504	1.2	√
25D561K	350	460	560 (504~616)	150	920	20KA	20KA	10KA	528	1.2	√
25D621K	385	505	620 (558~682)	150	1025	20KA	20KA	10KA	540	1.2	√
25D681K	420	560	680 (612~748)	150	1120	20KA	20KA	10KA	552	1.2	√
25D751K	460	615	750 (675~825)	150	1240	20KA	20KA	10KA	612	1.2	√
25D781K	485	640	780 (702~858)	150	1290	20KA	20KA	10KA	636	1.2	√
25D821K	510	670	820 (738~902)	150	1355	20KA	20KA	10KA	684	1.2	√
25D911K	550	745	910 (819~1001)	150	1500	20KA	20KA	10KA	744	1.2	√
25D102K	625	825	1000 (900~1100)	150	1650	20KA	20KA	10KA	822	1.2	-
25D112K	680	895	1100 (990~1210)	150	1815	20KA	20KA	10KA	864	1.2	-
25D122K	750	980	1200(1080~1320)	150	1980	20KA	20KA	10KA	954	1.2	-
25D142K	880	1140	1400(1260~1540)	150	2310	20KA	20KA	10KA	1020	1.2	-
25D162K	1000	1280	1600(1400~1760)	150	2640	20KA	20KA	10KA	1164	1.2	-
25D182K	1100	1465	1800(1620~1980)	150	2970	20KA	20KA	10KA	1310	1.2	-

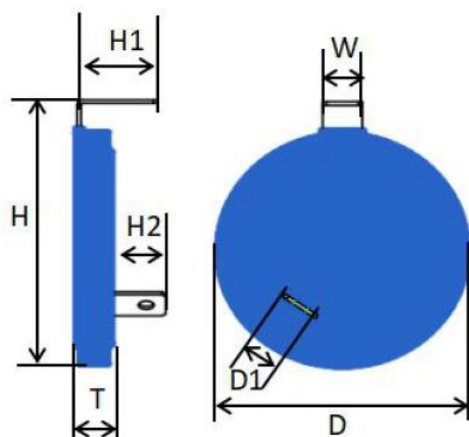


TABLE1		TABLE2	
Symbol	Dimensions	Part number	T(±1.0mm)
D(Max)	27.0mm	25D820K	3.0mm
H(Max)	38.0mm	25D101K	3.2mm
H1	10.5mm ±0.8	25D121K	3.3mm
H2	5.5mm±0.5	25D151K	3.4mm
W	5.0mm±0.2	25D181K	3.2mm
D1	5.0mm±0.2	25D201K	3.3mm
T(Max)	TABLE2	25D221K	3.5mm
Epoxy Colour	Blue	25D241K	3.0mm
		25D271K	3.2mm
		25D301K	3.3mm
		25D331K	3.5mm
		25D361K	3.8mm
		25D391K	3.8mm
		25D431K	4.4mm
		25D471K	4.5mm
		25D511K	4.8mm
		25D561K	5.2mm
		25D621K	5.5mm
		25D681K	5.6mm
		25D751K	5.8mm
		25D781K	6.0mm
		25D821K	6.2mm
		25D911K	6.8mm
		25D102K	7.3mm
		25D112K	7.9mm
		25D122K	8.6mm
		25D142K	10.4mm
		25D162K	11.0mm
		25D182K	12.3mm

Packing Information



Part Number	Quantity	Packaging Option	Packaging Specification
25DxxxK	60PCS	Foam Box	Bulk Pack

Bulk Pack

