

Metal Oxide Varistors (MOV)

Features

·Wide operating voltage (V1mA) range from 82V to 1200V

·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℃ ~ +85℃

·Storage Temperature: -40℃ ~ +125℃

Electrical Characteristics



Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage	Rated Voltage	Maximum peak Current 8/20μs		Maximum Energy (10/1000μs)	Typical Capacitance (Reference)
	V _{AC}	V _{DC}				I _{n 10times}	I _{max}		
MOV	V _{AC}	V _{DC}	V _{1mA} (V)	V _{C AT 125A}	reference			(J)	1KHz(pf)
19S820KA	50V	65V	82V(74~90)	135V	DC 48V	6KA	12KA	67J	5880pf
19S101KA	60V	85V	100V(90~110)	165V	DC 48V	7.5KA	15KA	84J	4800pf
19S121KA	75V	100V	120V(108~132)	200V	DC 60V	7.5KA	15KA	102J	4000pf
19S151KA	95V	125V	150V(135~165)	250V	DC 60V	8KA	16KA	127J	3200pf
19S181KA	115V	150V	180V(162~198)	300V	AC 100V	8KA	16KA	156J	2650pf
19S201KA	130V	170V	200V(180~220)	340V	AC 125V	8KA	16KA	170J	2400pf
19S221KA	140V	180V	220V(198~242)	360V	AC 125V	8KA	16KA	185J	2160pf
19S241KA	150V	200V	240V(216~264)	395V	AC 125V	8KA	16KA	200J	2000pf
19S271KA	175V	225V	270V(243~297)	455V	AC 125V	8KA	16KA	230J	1800pf
19S301KA	190V	250V	300V(270~330)	500V	AC 125V	8KA	16KA	250J	1560pf
19S331KA	210V	275V	330V(297~363)	550V	AC 250V Telephone test	8KA	16KA	270J	1440pf
19S361KA	230V	300V	360V(324~396)	595V		8KA	16KA	305J	1320pf
19S391KA	250V	320V	390V(351~429)	650V		8KA	16KA	330J	1200pf
19S431KA	275V	350V	430V(387~473)	710V	AC 250V	8KA	16KA	365J	1160pf
19S471KA	300V	385V	470V(423~517)	775V	AC 250V	8KA	16KA	420J	1020pf
19S511KA	320V	415V	510V(459~561)	845V	AC 250V	8KA	16KA	430J	935pf
19S561KA	350V	460V	560V(504~616)	925V	AC 250V	8KA	16KA	455J	850pf
19S621KA	385V	505V	620V(558~682)	1025V	AC 250V	8KA	16KA	465J	780pf
19S681KA	420V	560V	680V(612~748)	1120V	AC 250V	8KA	16KA	480J	720pf
19S711KA	440V	585V	710V(644~786)	1180V	AC 250V	8KA	16KA	490J	690pf

Electrical Characteristics

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage	Rated Voltage	Maximum peak Current 8/20μs		Maximum Energy (10/1000μs)	Typical Capacitance (Reference)
MOV	V _{AC}	V _{DC}	V _{1mA} (V)	V _C AT 150A	reference	I _{n 10times}	I _{max}	(J)	1KHz(pf)
19S751KA	460V	615V	750V(675~825)	1240V	AC 250V	7.5KA	15KA	500J	635pf
19S781KA	485V	640V	780V(702~858)	1290V	AC 250V	7.5KA	15KA	525J	610pf
19S821KA	510V	670V	820V(738~902)	1355V	AC 380V Or G	7.5KA	15KA	550J	600pf
19S911KA	550V	745V	910V(819~1001)	1500V		7.5KA	15KA	610J	525pf
19S102KA	625V	825V	1000V(900~1100)	1650V		7.5KA	15KA	675J	480pf
19S112KA	680V	895V	1100V(990~1210)	1815V		7.5KA	15KA	740J	430pf
19S122KA	750V	990V	1200V(1080~1320)	1980V		7.5KA	15KA	800J	400pf

Dimension(mm)

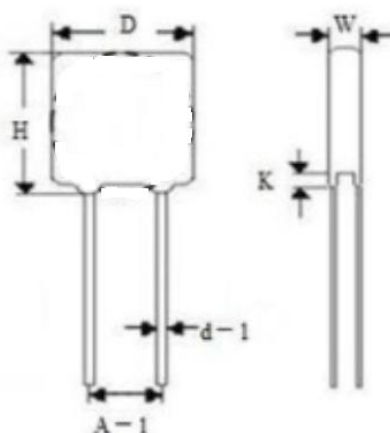


TABLE1		TABLE2 T(±1.0mm)					
Symbol	Dimensions	Part number	T	Part number	T	Part number	T
D(Max)	20.0mm	19S820KA	5.0mm	19S331KA	6.0mm	19S751KA	8.4mm
H(Min)	22.0mm	19S101KA	5.2mm	19S361KA	6.1mm	19S781KA	8.6mm
A-1(Max)	10.0mm	19S121KA	5.4mm	19S391KA	6.3mm	19S821KA	9.1mm
d-1	0.8mm	19S151KA	5.6mm	19S431KA	6.5mm	19S911KA	9.3mm
W	TABLE2	19S181KA	5.9mm	19S471KA	6.7mm	19S102KA	9.6mm
		19S201KA	5.3mm	19S511KA	6.9mm	19S112KA	10.1mm
		19S221KA	5.4mm	19S561KA	7.2mm	19S122KA	10.6mm
		19S241KA	5.5mm	19S621KA	7.5mm	=	=
		19S271KA	5.7mm	19S681KA	7.9mm	=	=
		19S301KA	5.8mm	19S711KA	8.2mm	=	=