Metal Oxide Varistors-S Series (Standard) Data Sheet

Feature

■Wide operating voltage range from 18V to 1100V

■Operating Temperature: -40℃~ +105℃

■Storage Temperature: 15℃~35℃

Applications

■The over-voltage protection for transistors, IC, SCR and semiconductor switching components and a variety of electronic, electrical equipment

■Surge absorption and over-voltage protection for household appliances

■Industrial electrical surge absorption

■Electrostatic discharge and noise signal cancellation

■Surge absorption of relays and solenoid valves

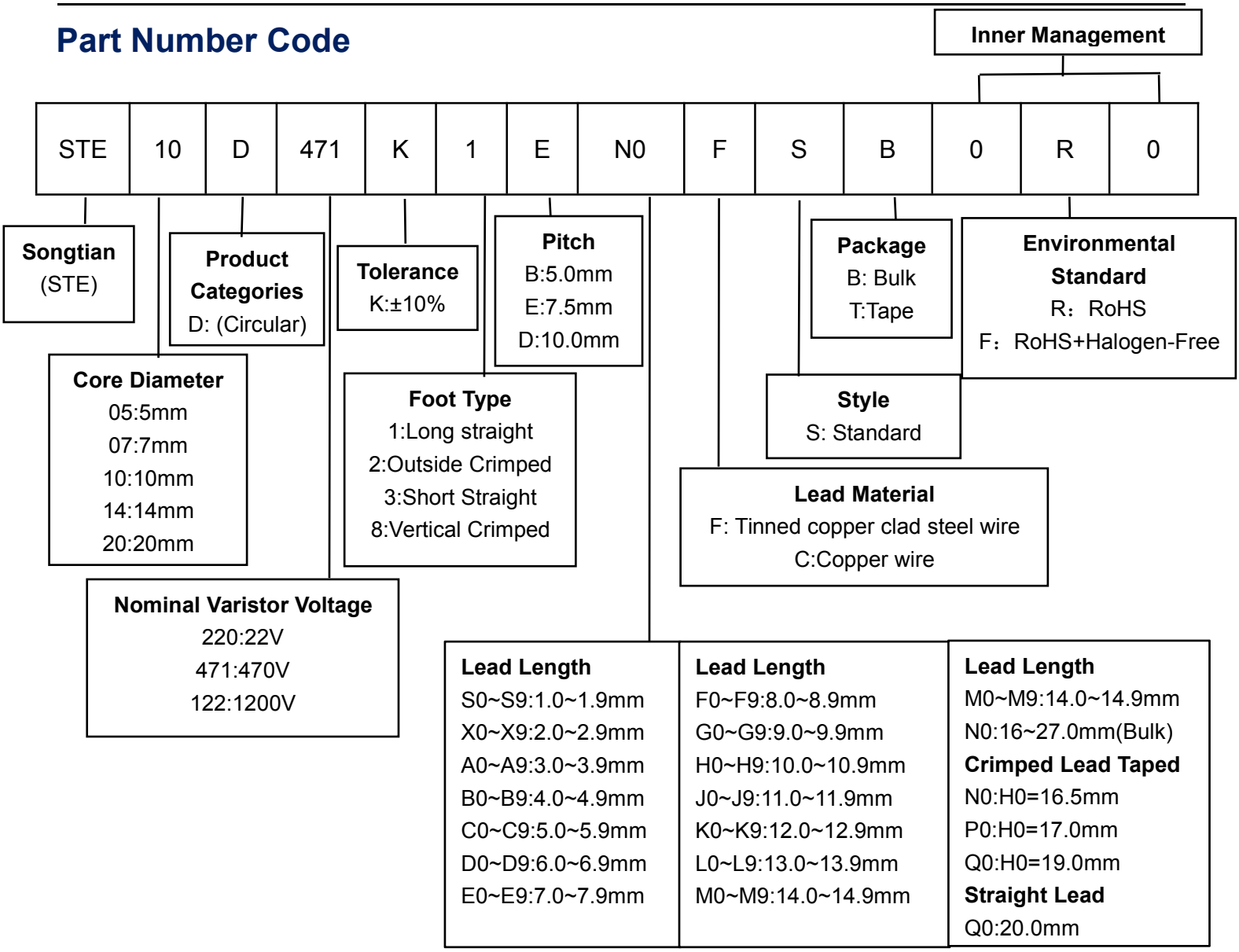
■Over-voltage protection for leakage switch

■The lightning protection and over-voltage protection for Telephone program-controlled switches and communications equipment

Applicable Standard

Approval		Organization	Safety Standards	Certificate No.
China	CQC	CQC	GB/T10193 GB/T10194	5D: CQC07001020534
				7D: CQC07001020533
				10D: CQC07001020532
				14D: CQC07001020531
				20D: CQC07001020530
USA Canada	c UL us	UL	UL1449	E330837
Germany	VDE REG.-Nr.C559	VDE	IEC61051	40023049

Part Number Code



Electrical Characteristics

5D-S Series

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Peak Current Rating(8/20μs)		Maximum Energy (10/1000μs)	Rated Power	Typical Capacitance (Reference)
	AC_{rms} (V)	DC_{rms} (V)	$V_{0.1mA}$ (V)	VC (V)	IP (A)	1 pulse (A)	2 pulse (A)	(J)	(W)	1KHz (pF)
STE-05D180KS	11	14	18(15-21.6)	40	1	100	50	0.4	0.01	1400
STE-05D220KS	14	18	22(19.5-26)	48	1	100	50	0.5	0.01	1150
STE-05D270KS	17	22	27(24-31)	60	1	100	50	0.6	0.01	930
STE-05D330KS	20	26	33(29.5-36.5)	73	1	100	50	0.8	0.01	760
STE-05D390KS	25	31	39(35-43)	80	1	100	50	0.9	0.01	640
STE-05D470KS	30	38	47(42-52)	104	1	100	50	1.1	0.01	530
STE-05D560KS	35	45	56(50-62)	123	1	100	50	1.3	0.01	450
STE-05D680KS	40	56	68(61-75)	145	1	100	50	1.6	0.01	370
STE-05D820KS	50	65	82(74-90)	150	5	400	200	2.5	0.1	300
STE-05D101KS	60	85	100(90-110)	175	5	400	200	3.0	0.1	250
STE-05D121KS	75	100	120(108-132)	210	5	400	200	3.5	0.1	210
STE-05D151KS	95	125	150(135-165)	260	5	400	200	4.5	0.1	165
STE-05D181KS	115	150	180(162-198)	320	5	400	200	5.9	0.1	140
STE-05D201KS	130	170	200(180-220)	355	5	400	200	6.5	0.1	125
STE-05D221KS	140	180	220(198-242)	380	5	400	200	7.0	0.1	110
STE-05D241KS	150	200	240(216-264)	415	5	400	200	8.0	0.1	100
STE-05D271KS	175	225	270(243-297)	475	5	400	200	8.5	0.1	95
STE-05D301KS	190	250	300(270-330)	520	5	400	200	9.0	0.1	85
STE-05D331KS	210	275	330(297-363)	570	5	400	200	9.5	0.1	75
STE-05D361KS	230	300	360(324-396)	620	5	400	200	10.0	0.1	70
STE-05D391KS	250	320	390(351-429)	675	5	400	200	12.0	0.1	65
STE-05D431KS	275	350	430(387-473)	745	5	400	200	13.0	0.1	60
STE-05D471KS	300	385	470(423-517)	810	5	400	200	15.0	0.1	55
STE-05D511KS	320	415	510(459-561)	845	5	400	200	16.0	0.1	50
STE-05D561KS	350	460	560(504-616)	920	5	400	200	16.8	0.1	45
STE-05D621KS	385	505	620(558-682)	1025	5	400	200	17.7	0.1	40
STE-05D681KS	420	560	680(612-748)	1120	5	400	200	19.4	0.1	38

7D-S Series

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Peak Current Rating(8/20μs)		Maximum Energy (10/1000μs)	Rated Power	Typical Capacitance (Reference)
	AC_{rms} (V)	DC_{rms} (V)	V_{1mA} (V)	VC (V)	IP (A)	1 pulse (A)	2 pulse (A)	(J)	(W)	1KHz (pF)
STE-07D180KS	11	14	18(15-21.6)	36	2.5	250	125	0.9	0.02	2800
STE-07D220KS	14	18	22(19.5-26)	43	2.5	250	125	1.1	0.02	2300
STE-07D270KS	17	22	27(24-31)	53	2.5	250	125	1.4	0.02	1800
STE-07D330KS	20	26	33(29.5-36.5)	65	2.5	250	125	1.7	0.02	1500
STE-07D390KS	25	31	39(35-43)	77	2.5	250	125	2.1	0.02	1300
STE-07D470KS	30	38	47(42-52)	93	2.5	250	125	2.5	0.02	1100
STE-07D560KS	35	45	56(50-62)	110	2.5	250	125	3.1	0.02	890
STE-07D680KS	40	56	68(61-75)	135	2.5	250	125	3.6	0.02	740
STE-07D820KS	50	65	82(74-90)	135	10	1200	600	5.5	0.25	810
STE-07D101KS	60	85	100(90-110)	165	10	1200	600	6.5	0.25	700
STE-07D121KS	75	100	120(108-132)	200	10	1200	600	7.8	0.25	590
STE-07D151KS	95	125	150(135-165)	250	10	1200	600	9.7	0.25	500
STE-07D181KS	115	150	180(162-198)	300	10	1200	600	11.7	0.25	280
STE-07D201KS	130	170	200(180-220)	340	10	1200	600	13.0	0.25	200
STE-07D221KS	140	180	220(198-242)	360	10	1200	600	14.0	0.25	190
STE-07D241KS	150	200	240(216-264)	395	10	1200	600	15.0	0.25	170
STE-07D271KS	175	225	270(243-297)	455	10	1200	600	18.0	0.25	150
STE-07D301KS	190	250	300(270-330)	500	10	1200	600	20.0	0.25	140
STE-07D331KS	210	275	330(297-363)	550	10	1200	600	23.0	0.25	130
STE-07D361KS	230	300	360(324-396)	595	10	1200	600	24.0	0.25	130
STE-07D391KS	250	320	390(351-429)	650	10	1200	600	26.0	0.25	130
STE-07D431KS	275	350	430(387-473)	710	10	1200	600	28.0	0.25	120
STE-07D471KS	300	385	470(423-517)	775	10	1200	600	29.0	0.25	100
STE-07D511KS	320	415	510(459-561)	845	10	1200	600	31.0	0.25	90
STE-07D561KS	350	460	560(504-616)	925	10	1200	600	35.0	0.25	90
STE-07D621KS	385	505	620(558-682)	1025	10	1200	600	38.0	0.25	80
STE-07D681KS	420	560	680(612-748)	1120	10	1200	600	42.0	0.25	75

10D-S Series

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Peak Current Rating(8/20μs)		Maximum Energy (10/1000μs)	Rated Power	Typical Capacitance (Reference)
	AC_{rms} (V)	DC_{rms} (V)	V_{1mA} (V)	VC (V)	IP (A)	1 pulse (A)	2 pulse (A)	(J)	(W)	1KHz (pF)
STE-10D180KS	11	14	18(15-21.6)	36	5	500	250	2.1	0.05	5600
STE-10D220KS	14	18	22(19.5-26)	43	5	500	250	2.5	0.05	4500
STE-10D270KS	17	22	27(24-31)	53	5	500	250	3.0	0.05	3700
STE-10D330KS	20	26	33(29.5-36.5)	65	5	500	250	4.0	0.05	3000
STE-10D390KS	25	31	39(35-43)	77	5	500	250	4.6	0.05	2400
STE-10D470KS	30	38	47(42-52)	93	5	500	250	5.5	0.05	2100
STE-10D560KS	35	45	56(50-62)	110	5	500	250	7.0	0.05	1800
STE-10D680KS	40	56	68(61-75)	135	5	500	250	8.2	0.05	1500
STE-10D820KS	50	65	82(74-90)	135	25	2500	1250	12.0	0.4	2000
STE-10D101KS	60	85	100(90-110)	165	25	2500	1250	15.0	0.4	1700
STE-10D121KS	75	100	120(108-132)	200	25	2500	1250	18.0	0.4	1400
STE-10D151KS	95	125	150(135-165)	250	25	2500	1250	22.0	0.4	1100
STE-10D181KS	115	150	180(162-198)	300	25	2500	1250	27.0	0.4	560
STE-10D201KS	130	170	200(180-220)	340	25	2500	1250	30.0	0.4	430
STE-10D221KS	140	180	220(198-242)	360	25	2500	1250	32.0	0.4	410
STE-10D241KS	150	200	240(216-264)	395	25	2500	1250	35.0	0.4	380
STE-10D271KS	175	225	270(243-297)	455	25	2500	1250	37.0	0.4	350
STE-10D301KS	190	250	300(270-330)	500	25	2500	1250	40.0	0.4	330
STE-10D331KS	210	275	330(297-363)	550	25	2500	1250	43.0	0.4	300
STE-10D361KS	230	300	360(324-396)	595	25	2500	1250	47.0	0.4	300
STE-10D391KS	250	320	390(351-429)	650	25	2500	1250	60.0	0.4	300
STE-10D431KS	275	350	430(387-473)	710	25	2500	1250	65.0	0.4	270
STE-10D471KS	300	385	470(423-517)	775	25	2500	1250	67.0	0.4	230
STE-10D511KS	320	415	510(459-561)	845	25	2500	1250	69.0	0.4	210
STE-10D561KS	350	460	560(504-616)	925	25	2500	1250	70.0	0.4	180
STE-10D621KS	385	505	620(558-682)	1025	25	2500	1250	72.0	0.4	190
STE-10D681KS	420	560	680(612-748)	1120	25	2500	1250	75.0	0.4	170
STE-10D751KS	460	615	750(675-825)	1240	25	2500	1250	77.0	0.4	160
STE-10D781KS	485	640	780(702-858)	1290	25	2500	1250	80.0	0.4	125
STE-10D821KS	510	670	820(738-902)	1355	25	2500	1250	85.0	0.4	140
STE-10D911KS	550	745	910(819-1001)	1500	25	2500	1250	93.0	0.4	120
STE-10D102KS	625	825	1000(900-1100)	1650	25	2500	1250	102.0	0.4	110
STE-10D112KS	680	895	1100(990-1210)	1815	25	2500	1250	115.0	0.4	90

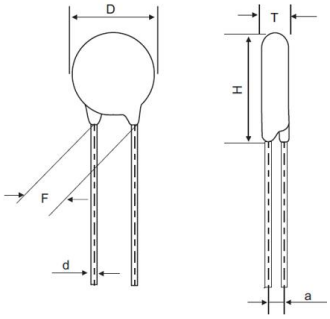
14D-S Series

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Peak Current Rating(8/20μs)		Maximum Energy (10/1000μs)	Rated Power	Typical Capacitance (Reference)
	AC_{rms} (V)	DC_{rms} (V)	V_{1mA} (V)	VC (V)	IP (A)	1 pulse (A)	2 pulse (A)	(J)	(W)	1KHz (pF)
STE-14D180KS	11	14	18(15-21.6)	36	10	1000	500	4.0	0.1	11100
STE-14D220KS	14	18	22(19.5-26)	43	10	1000	500	5.0	0.1	9100
STE-14D270KS	17	22	27(24-31)	53	10	1000	500	6.0	0.1	7400
STE-14D330KS	20	26	33(29.5-36.5)	65	10	1000	500	7.5	0.1	6100
STE-14D390KS	25	31	39(35-43)	77	10	1000	500	8.6	0.1	5100
STE-14D470KS	30	38	47(42-52)	93	10	1000	500	10.0	0.1	4300
STE-14D560KS	35	45	56(50-62)	110	10	1000	500	11.0	0.1	3600
STE-14D680KS	40	56	68(61-75)	135	10	1000	500	14.0	0.1	2900
STE-14D820KS	50	65	82(74-90)	135	50	4500	2500	22.0	0.6	3700
STE-14D101KS	60	85	100(90-110)	165	50	4500	2500	28.0	0.6	3200
STE-14D121KS	75	100	120(108-132)	200	50	4500	2500	32.0	0.6	2700
STE-14D151KS	95	125	150(135-165)	250	50	4500	2500	40.0	0.6	2200
STE-14D181KS	115	150	180(162-198)	300	50	4500	2500	50.0	0.6	1100
STE-14D201KS	130	170	200(180-220)	340	50	4500	2500	57.0	0.6	770
STE-14D221KS	140	180	220(198-242)	360	50	4500	2500	60.0	0.6	740
STE-14D241KS	150	200	240(216-264)	395	50	4500	2500	63.0	0.6	700
STE-14D271KS	175	225	270(243-297)	455	50	4500	2500	70.0	0.6	640
STE-14D301KS	190	250	300(270-330)	500	50	4500	2500	77.0	0.6	670
STE-14D331KS	210	275	330(297-363)	550	50	4500	2500	85.0	0.6	580
STE-14D361KS	230	300	360(324-396)	595	50	4500	2500	93.0	0.6	540
STE-14D391KS	250	320	390(351-429)	650	50	4500	2500	100	0.6	500
STE-14D431KS	275	350	430(387-473)	710	50	4500	2500	115	0.6	450
STE-14D471KS	300	385	470(423-517)	775	50	4500	2500	118	0.6	400
STE-14D511KS	320	415	510(459-561)	845	50	4500	2500	121	0.6	350
STE-14D561KS	350	460	560(504-616)	925	50	4500	2500	125	0.6	360
STE-14D621KS	385	505	620(558-682)	1025	50	4500	2500	128	0.6	330
STE-14D681KS	420	560	680(612-748)	1120	50	4500	2500	130	0.6	320
STE-14D751KS	460	615	750(675-825)	1240	50	4500	2500	143	0.6	310
STE-14D781KS	485	640	780(702-858)	1290	50	4500	2500	148	0.6	260
STE-14D821KS	510	670	820(738-902)	1355	50	4500	2500	157	0.6	280
STE-14D911KS	550	745	910(819-1001)	1500	50	4500	2500	175	0.6	250
STE-14D102KS	625	825	1000(900-1100)	1650	50	4500	2500	190	0.6	230
STE-14D112KS	680	895	1100(990-1210)	1815	50	4500	2500	213	0.6	180

20D-S Series

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Peak Current Rating(8/20μs)		Maximum Energy (10/1000μs)	Rated Power	Typical Capacitance (Reference)
	AC_{rms} (V)	DC_{rms} (V)	V_{1mA} (V)	VC (V)	IP (A)	1 pulse (A)	2 pulse (A)	(J)	(W)	1KHz (pF)
STE-20D180KS	11	14	18(15-21.6)	36	20	2000	1000	11	0.2	28500
STE-20D220KS	14	18	22(19.5-26)	43	20	2000	1000	14	0.2	18500
STE-20D270KS	17	22	27(24-31)	53	20	2000	1000	16	0.2	13000
STE-20D330KS	20	26	33(29.5-36.5)	65	20	2000	1000	23	0.2	11500
STE-20D390KS	25	31	39(35-43)	77	20	2000	1000	26	0.2	8500
STE-20D470KS	30	38	47(42-52)	93	20	2000	1000	30	0.2	7400
STE-20D560KS	35	45	56(50-62)	110	20	2000	1000	38	0.2	6500
STE-20D680KS	40	56	68(61-75)	135	20	2000	1000	41	0.2	5800
STE-20D820KS	50	65	82(74-90)	135	100	6500	4500	45	1.0	7500
STE-20D101KS	60	85	100(90-110)	165	100	6500	4500	50	1.0	6500
STE-20D121KS	75	100	120(108-132)	200	100	6500	4500	55	1.0	5500
STE-20D151KS	95	125	150(135-165)	250	100	6500	4500	70	1.0	4500
STE-20D181KS	115	150	180(162-198)	300	100	6500	4500	85	1.0	2200
STE-20D201KS	130	170	200(180-220)	340	100	6500	4500	95	1.0	1700
STE-20D221KS	140	180	220(198-242)	360	100	6500	4500	100	1.0	1600
STE-20D241KS	150	200	240(216-264)	395	100	6500	4500	108	1.0	1500
STE-20D271KS	175	225	270(243-297)	455	100	6500	4500	127	1.0	1300
STE-20D301KS	190	250	300(270-330)	500	100	6500	4500	136	1.0	1300
STE-20D331KS	210	275	330(297-363)	550	100	6500	4500	150	1.0	1100
STE-20D361KS	230	300	360(324-396)	595	100	6500	4500	163	1.0	1100
STE-20D391KS	250	320	390(351-429)	650	100	6500	4500	180	1.0	1100
STE-20D431KS	275	350	430(387-473)	710	100	6500	4500	190	1.0	1000
STE-20D471KS	300	385	470(423-517)	775	100	6500	4500	204	1.0	900
STE-20D511KS	320	415	510(459-561)	845	100	6500	4500	210	1.0	800
STE-20D561KS	350	460	560(504-616)	925	100	6500	4500	215	1.0	710
STE-20D621KS	385	505	620(558-682)	1025	100	6500	4500	224	1.0	700
STE-20D681KS	420	560	680(612-748)	1120	100	6500	4500	230	1.0	650
STE-20D751KS	460	615	750(675-825)	1240	100	6500	4500	255	1.0	600
STE-20D781KS	485	640	780(702-858)	1290	100	6500	4500	265	1.0	510
STE-20D821KS	510	670	820(738-902)	1355	100	6500	4500	282	1.0	530
STE-20D911KS	550	745	910(819-1001)	1500	100	6500	4500	310	1.0	500
STE-20D102KS	625	825	1000(900-1100)	1650	100	6500	4500	342	1.0	450
STE-20D112KS	680	895	1100(990-1210)	1815	100	6500	4500	383	1.0	360

Dimensions (mm) and Approval



5D-S Series

Part No.	Size (mm)				Approval			
	D Max.	T Max.	F±0.8	d±0.05	CQC	VDE	UL (USA)	cUL (Canada)
STE-05D180KS	7.5	3.0	5.0	0.5			√	√
STE-05D220KS	7.5	3.5	5.0	0.5			√	√
STE-05D270KS	7.5	3.5	5.0	0.5			√	√
STE-05D330KS	7.5	3.5	5.0	0.5			√	√
STE-05D390KS	7.5	3.5	5.0	0.5			√	√
STE-05D470KS	7.5	4.0	5.0	0.5				
STE-05D560KS	7.5	4.0	5.0	0.5				
STE-05D680KS	7.5	4.5	5.0	0.5				
STE-05D820KS	7.5	3.5	5.0	0.5	√		√	√
STE-05D101KS	7.5	3.5	5.0	0.5	√		√	√
STE-05D121KS	7.5	3.5	5.0	0.5	√		√	√
STE-05D151KS	7.5	3.5	5.0	0.5	√		√	√
STE-05D181KS	7.5	4.0	5.0	0.5	√		√	√
STE-05D201KS	7.5	4.0	5.0	0.5	√		√	√
STE-05D221KS	7.5	4.0	5.0	0.5	√		√	
STE-05D241KS	7.5	4.0	5.0	0.5	√		√	
STE-05D271KS	7.5	4.0	5.0	0.5	√		√	
STE-05D301KS	7.5	4.5	5.0	0.5	√		√	
STE-05D331KS	7.5	4.5	5.0	0.5	√		√	
STE-05D361KS	7.5	4.5	5.0	0.5	√		√	
STE-05D391KS	7.5	5.0	5.0	0.5	√		√	
STE-05D431KS	7.5	4.5	5.0	0.5	√		√	
STE-05D471KS	7.5	4.5	5.0	0.5	√		√	
STE-05D511KS	7.5	5.0	5.0	0.5	√		√	
STE-05D561KS	7.5	5.0	5.0	0.5	√		√	
STE-05D621KS	7.5	5.0	5.0	0.5				
STE-05D681KS	7.5	5.5	5.0	0.5				

7D-S Series

Part No.	Size (mm)				Approval			
	D Max.	T Max.	F±0.8	d±0.05	CQC	VDE	UL (USA)	cUL (Canada)
STE-07D180KS	9.0	3.5	5.0	0.5			√	√
STE-07D220KS	9.0	3.5	5.0	0.5			√	√
STE-07D270KS	9.0	3.5	5.0	0.5			√	√
STE-07D330KS	9.0	3.5	5.0	0.5			√	√
STE-07D390KS	9.0	3.5	5.0	0.5			√	√
STE-07D470KS	9.0	4.0	5.0	0.5			√	√
STE-07D560KS	9.0	4.0	5.0	0.5			√	√
STE-07D680KS	9.0	4.5	5.0	0.5			√	√
STE-07D820KS	9.0	3.5	5.0	0.5	√	√	√	√
STE-07D101KS	9.0	3.5	5.0	0.5	√	√	√	√
STE-07D121KS	9.0	3.5	5.0	0.5	√	√	√	√
STE-07D151KS	9.0	3.5	5.0	0.5	√	√	√	√
STE-07D181KS	9.0	4.0	5.0	0.5	√	√	√	√
STE-07D201KS	9.0	4.0	5.0	0.5	√	√	√	√
STE-07D221KS	9.0	4.5	5.0	0.5	√	√	√	√
STE-07D241KS	9.0	4.0	5.0	0.5	√	√	√	√
STE-07D271KS	9.0	4.0	5.0	0.5	√	√	√	√
STE-07D301KS	9.0	4.5	5.0	0.5	√	√	√	√
STE-07D331KS	9.0	4.5	5.0	0.5	√	√	√	√
STE-07D361KS	9.0	4.5	5.0	0.5	√	√	√	√
STE-07D391KS	9.0	5.0	5.0	0.5	√	√	√	√
STE-07D431KS	9.0	4.5	5.0	0.5	√	√	√	√
STE-07D471KS	9.0	4.5	5.0	0.5	√	√	√	√
STE-07D511KS	9.0	5.0	5.0	0.5	√	√	√	√
STE-07D561KS	9.0	5.0	5.0	0.5	√	√	√	√
STE-07D621KS	9.0	5.0	5.0	0.5	√	√	√	√
STE-07D681KS	9.0	5.5	5.0	0.5	√	√	√	√

10D-S Series

Part No.	Size (mm)				Approval			
	D Max.	T Max.	F±0.8	d±0.05	CQC	VDE	UL (USA)	cUL (Canada)
STE-10D180KS	12.5	3.5	7.5	0.7			√	√
STE-10D220KS	12.5	3.5	7.5	0.7			√	√
STE-10D270KS	12.5	4.0	7.5	0.7			√	√
STE-10D330KS	12.5	4.0	7.5	0.7			√	√
STE-10D390KS	12.5	4.0	7.5	0.7			√	√
STE-10D470KS	12.5	4.0	7.5	0.7			√	√
STE-10D560KS	12.5	4.5	7.5	0.7			√	√
STE-10D680KS	12.5	5.0	7.5	0.7			√	√
STE-10D820KS	12.5	4.0	7.5	0.7	√	√	√	√
STE-10D101KS	12.5	4.0	7.5	0.7	√	√	√	√
STE-10D121KS	12.5	4.0	7.5	0.7	√	√	√	√
STE-10D151KS	12.5	4.5	7.5	0.7	√	√	√	√
STE-10D181KS	12.5	4.5	7.5	0.7	√	√	√	√
STE-10D201KS	12.5	4.5	7.5	0.7	√	√	√	√
STE-10D221KS	12.5	4.5	7.5	0.7	√	√	√	√
STE-10D241KS	12.5	4.5	7.5	0.7	√	√	√	√
STE-10D271KS	12.5	4.5	7.5	0.7	√	√	√	√
STE-10D301KS	12.5	5.0	7.5	0.7	√	√	√	√
STE-10D331KS	12.5	5.0	7.5	0.7	√	√	√	√
STE-10D361KS	12.5	5.0	7.5	0.7	√	√	√	√
STE-10D391KS	12.5	5.0	7.5	0.7	√	√	√	√
STE-10D431KS	12.5	5.0	7.5	0.7	√	√	√	√
STE-10D471KS	12.5	5.0	7.5	0.7	√	√	√	√
STE-10D511KS	12.5	5.5	7.5	0.7	√	√	√	√
STE-10D561KS	12.5	5.5	7.5	0.7	√	√	√	√
STE-10D621KS	12.5	5.5	7.5	0.7	√	√	√	√
STE-10D681KS	12.5	6.0	7.5	0.7	√	√	√	√
STE-10D751KS	12.5	6.0	7.5	0.7	√	√	√	√
STE-10D781KS	12.5	6.5	7.5	0.7			√	√
STE-10D821KS	12.5	6.5	7.5	0.7	√	√	√	√
STE-10D911KS	12.5	7.0	7.5	0.7	√	√	√	√
STE-10D102KS	12.5	7.5	7.5	0.7	√	√	√	√
STE-10D112KS	12.5	7.5	7.5	0.7	√		√	√

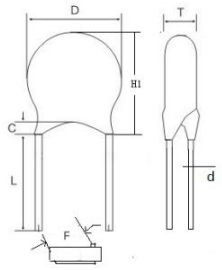
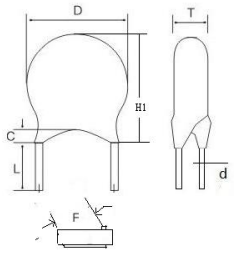
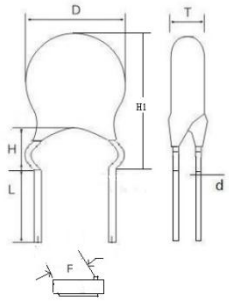
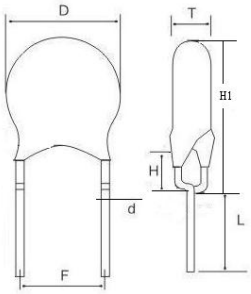
14D-S Series

Part No.	Size (mm)				Approval			
	D Max.	T Max.	F±0.8	d±0.05	CQC	VDE	UL (USA)	cUL (Canada)
STE-14D180KS	16.5	3.5	7.5	0.7			√	√
STE-14D220KS	16.5	3.5	7.5	0.7			√	√
STE-14D270KS	16.5	4.0	7.5	0.7			√	√
STE-14D330KS	16.5	4.0	7.5	0.7			√	√
STE-14D390KS	16.5	4.0	7.5	0.7			√	√
STE-14D470KS	16.5	4.0	7.5	0.7			√	√
STE-14D560KS	16.5	4.5	7.5	0.7			√	√
STE-14D680KS	16.5	5.0	7.5	0.7			√	√
STE-14D820KS	16.5	4.0	7.5	0.7	√	√	√	√
STE-14D101KS	16.5	4.0	7.5	0.7	√	√	√	√
STE-14D121KS	16.5	4.0	7.5	0.7	√	√	√	√
STE-14D151KS	16.5	4.5	7.5	0.7	√	√	√	√
STE-14D181KS	16.5	4.5	7.5	0.7	√	√	√	√
STE-14D201KS	16.5	4.5	7.5	0.7	√	√	√	√
STE-14D221KS	16.5	4.5	7.5	0.7	√	√	√	√
STE-14D241KS	16.5	4.5	7.5	0.7	√	√	√	√
STE-14D271KS	16.5	4.5	7.5	0.7	√	√	√	√
STE-14D301KS	16.5	5.0	7.5	0.7	√	√	√	√
STE-14D331KS	16.5	5.0	7.5	0.7	√	√	√	√
STE-14D361KS	16.5	5.0	7.5	0.7	√	√	√	√
STE-14D391KS	16.5	5.0	7.5	0.7	√	√	√	√
STE-14D431KS	16.5	5.0	7.5	0.7	√	√	√	√
STE-14D471KS	16.5	5.0	7.5	0.7	√	√	√	√
STE-14D511KS	16.5	5.5	7.5	0.7	√	√	√	√
STE-14D561KS	16.5	5.5	7.5	0.7	√	√	√	√
STE-14D621KS	16.5	5.5	7.5	0.7	√	√	√	√
STE-14D681KS	16.5	6.0	7.5	0.7	√	√	√	√
STE-14D751KS	16.5	6.0	7.5	0.7	√	√	√	√
STE-14D781KS	16.5	6.5	7.5	0.7			√	√
STE-14D821KS	16.5	6.5	7.5	0.7	√	√	√	√
STE-14D911KS	16.5	7.0	7.5	0.7	√	√	√	√
STE-14D102KS	16.5	7.5	7.5	0.7	√	√	√	√
STE-14D112KS	16.5	7.5	7.5	0.7	√		√	√

20D-S Series

Part No.	Size (mm)					Approval			
	D Max.	T Max.	F±0.8	d±0.05		CQC	VDE	UL (USA)	cUL (Canada)
				Straight lead	Crimped lead				
STE-20D180KS	23.0	4.0	10.0	1.0	0.7			√	√
STE-20D220KS	23.0	4.0	10.0	1.0	0.7			√	√
STE-20D270KS	23.0	4.5	10.0	1.0	0.7			√	√
STE-20D330KS	23.0	4.5	10.0	1.0	0.7			√	√
STE-20D390KS	23.0	4.5	10.0	1.0	0.7			√	√
STE-20D470KS	23.0	5.0	10.0	1.0	0.7			√	√
STE-20D560KS	23.0	5.0	10.0	1.0	0.7			√	√
STE-20D680KS	23.0	5.5	10.0	1.0	0.7			√	√
STE-20D820KS	23.0	4.0	10.0	1.0	0.7	√	√	√	√
STE-20D101KS	23.0	4.5	10.0	1.0	0.7	√	√	√	√
STE-20D121KS	23.0	4.5	10.0	1.0	0.7	√	√	√	√
STE-20D151KS	23.0	5.0	10.0	1.0	0.7	√	√	√	√
STE-20D181KS	23.0	5.0	10.0	1.0	0.7	√	√	√	√
STE-20D201KS	23.0	5.0	10.0	1.0	0.7	√	√	√	√
STE-20D221KS	23.0	5.5	10.0	1.0	0.7	√	√	√	√
STE-20D241KS	23.0	5.0	10.0	1.0	0.7	√	√	√	√
STE-20D271KS	23.0	5.0	10.0	1.0	0.7	√	√	√	√
STE-20D301KS	23.0	5.5	10.0	1.0	0.7	√	√	√	√
STE-20D331KS	23.0	5.5	10.0	1.0	0.7	√	√	√	√
STE-20D361KS	23.0	5.5	10.0	1.0	0.7	√	√	√	√
STE-20D391KS	23.0	5.5	10.0	1.0	0.7	√	√	√	√
STE-20D431KS	23.0	5.5	10.0	1.0	0.7	√	√	√	√
STE-20D471KS	23.0	5.5	10.0	1.0	0.7	√	√	√	√
STE-20D511KS	23.0	6.0	10.0	1.0	0.7	√	√	√	√
STE-20D561KS	23.0	6.0	10.0	1.0	0.7	√	√	√	√
STE-20D621KS	23.0	6.5	10.0	1.0	0.7	√	√	√	√
STE-20D681KS	23.0	6.5	10.0	1.0	0.7	√	√	√	√
STE-20D751KS	23.0	7.0	10.0	1.0	0.7	√	√	√	√
STE-20D781KS	23.0	7.0	10.0	1.0	0.7			√	√
STE-20D821KS	23.0	7.0	10.0	1.0	0.7	√	√	√	√
STE-20D911KS	23.0	7.5	10.0	1.0	0.7	√	√	√	√
STE-20D102KS	23.0	8.0	10.0	1.0	0.7	√	√	√	√
STE-20D112KS	23.0	8.0	10.0	1.0	0.7	√		√	√

Lead Configuration

Lead Style	Drawing	Lead Length L (mm)	Coating Lead Length C (mm)	Height H (mm)
Long Straight		16.0 min	3.0 Max	/
Short Straight		①[2.5≤L＜6.0]+/-0.5; ②[6.0≤L≤10]+/-1.0	3.0 Max	/
Outside Crimped		①[2.5≤L＜6.0]+/-0.5; ②[6.0≤L≤10]+/-1.0	Not exceed the bend point	5.5mm Max
Vertical Crimped		①[2.5≤L＜6.0]+/-0.5; ②[6.0≤L≤10]+/-1.0	Not exceed the bend point	4.5mm Max

Taping And Dimensions (mm)

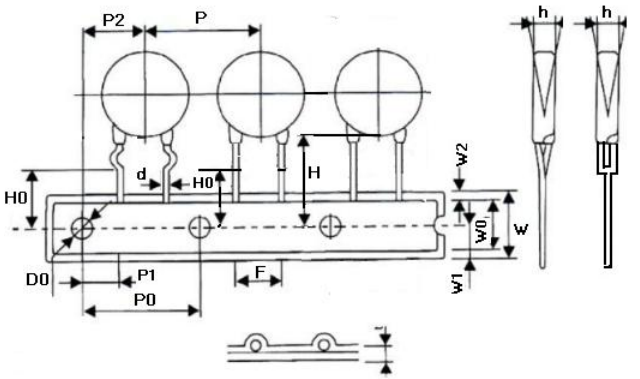
<table>
<tr><th rowspan="2">Figure</th><th colspan="2">Fig.1</th><th colspan="4">Fig.2</th></tr>
<tr><td>Symbol</td><td>P=5.0</td><td colspan="2">P=7.5</td><td colspan="2">P=10.0</td></tr>
<tr><td rowspan="13"> 

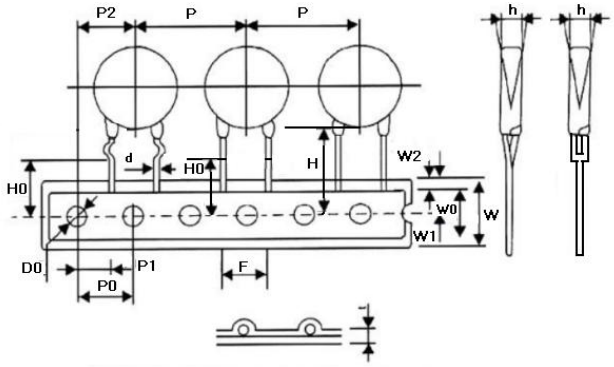
Fig.1 (P=5.0)
 

Fig.2 (P=7.5 & 10)</td><td>Po</td><td>12.7±0.3</td><td colspan="2">12.7±0.3</td><td colspan="2">12.7±0.3</td></tr>
<tr><td>P</td><td>12.7±1.0</td><td colspan="2">25.4±1.0</td><td colspan="2">25.4±1.0</td></tr>
<tr><td>P1</td><td>3.85±0.7</td><td colspan="2">8.95±0.7</td><td colspan="2">7.7±0.7</td></tr>
<tr><td>P2</td><td>6.35±1.3</td><td colspan="2">12.7±1.3</td><td colspan="2">12.7±1.3</td></tr>
<tr><td>F</td><td>5±0.8</td><td colspan="2">7.5±0.8</td><td colspan="2">10.0±0.8</td></tr>
<tr><td>Δh</td><td>0±2.0</td><td colspan="2">0±2.0</td><td colspan="2">0±2.0</td></tr>
<tr><td>W</td><td>18.0+1.5/-1.0</td><td colspan="2">18.0 +1.5/-1.0</td><td colspan="2">18.0 +1.5/-1.0</td></tr>
<tr><td>Wo</td><td>10.5 Max</td><td colspan="2">10.5 Max</td><td colspan="2">10.5 Max</td></tr>
<tr><td>W1</td><td>9.0+0.75/-0.5</td><td colspan="2">9.0+0.75/-0.5</td><td colspan="2">9.0+0.75/-0.5</td></tr>
<tr><td>W2</td><td>3.0 Max</td><td colspan="2">3.0 Max</td><td colspan="2">3.0 Max</td></tr>
<tr><td>Do</td><td>4.0±0.2</td><td colspan="2">4.0±0.2</td><td colspan="2">4.0±0.2</td></tr>
<tr><td>H</td><td>20+1.5/-1.0</td><td colspan="2">20+1.5/-1.0</td><td colspan="2">20+1.5/-1.0</td></tr>
<tr><td>Ho</td><td colspan="2">16.5&17.0&19.0
+1.5/-1.0</td><td colspan="2">16.5&17.0&19.0
+1.5/-1.0</td><td colspan="2">16.5&17.0&19.0
+1.5/-1.0</td></tr>
<tr><td rowspan="2">L</td><td>Straight Lead</td><td>Crimped Lead</td><td>Straight Lead</td><td>Crimped Lead</td><td>Straight Lead</td><td>Crimped Lead</td></tr>
<tr><td>11.0 Max</td><td>9.0 Max</td><td>11.0 Max</td><td>9.0 Max</td><td>11.0 Max</td><td>9.0 Max</td></tr>
<tr><td>t1</td><td>0.5±0.2</td><td colspan="2">0.5±0.2</td><td colspan="2">0.5±0.2</td></tr>
<tr><td>t2</td><td>1.7 Max</td><td colspan="2">1.7 Max</td><td colspan="2">1.7 Max</td></tr>
</table>

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