FEATURES

- Wide operating Voltages ranging from 5Vrms to 1000V(6Vdc to 1465Vdc).
- Fast response time of less than 25nS,instantly Clamping the transient over Voltage.
- High surge current handling capability.
- High energy absorption capability.
- Low Clamping voltages, providing better surge protection.
- Low capacitance values, providing digital switching circuitry protection.
- High insulation resistance, preventing electric arching to the adjacent devices or circuits.

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.

GENERAL CHARACTERISTICS DEFINITION

- Operating Temperature：-40℃~+85℃.
- Storage Temperature：-40℃~+85℃.
- Working Surface Temperature：+115℃.
- Insulation Resistance：＞100MΩ.

ORDERING INFORMATION

14	D	271	K
①	②	③	④

①Size：14: ϕ14.0mm;
②Type： D：Disk, S：Square;
③Varistor voltage：271——27×10^{1}=270V;
④ Tolerance：K=±10%,L=±15%,M=±20%;

PACKAGING

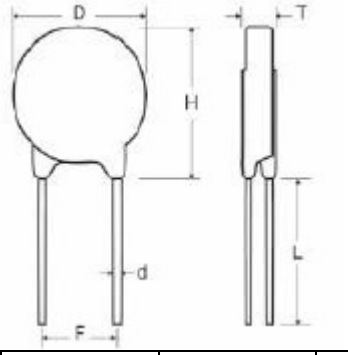
Model	Component Package	Quantity
14D□□□K	14.0mm	500

ELECTRICAL CHARACTERISTIC

Part Number Φ14.0mm		Maximum allowable voltage		Varistor voltage	Clamping voltage (Max.)		Maximum peak current (8/20μs)		Maximum peak current (8/20μs)		Rated power	Typical capacitance (Reference)
Standard	High surge	AC.rms (V)	DC (V)	V1.0mA (V)	VC (V)	IP (A)	Standard （A）	High surge （A）	Standard （J）	High surge （J）	（W）	@1KHz(pf)
14D180L	J	11	14	18(15-21)	36	10	1000	2000	4.0	7.0	0.1	11100
14D220K	J	14	18	22(20-24)	43				5.0	8.0		9100
14D270K	J	17	22	27(24-30)	53				6.0	10		7400
14D330K	J	20	26	33(30-36)	65				7.5	12		6100
14D390K	J	25	31	39(35-43)	77				8.6	13		5100
14D470K	J	30	38	47(42-52)	93				10.0	17		4300
14D560K	J	35	45	56(50-62)	110				11.0	20		3600
14D680K	J	40	56	68(61-75)	135				14.0	24		2900
14D820K	J	50	65	85(74-90)	135	50	4500	6000	22.0	27		2400
14D101K	J	60	85	100(90-110)	165				28.0	33	0.6	2000
14D121K	J	75	100	120(108-132)	200				32.0	40		1700
14D151K	J	95	125	150(135-165)	250				40.0	53		1300
14D181K	J	115	150	180(162-198)	300				50.0	60		1100
14D201K	J	130	170	200(185-225)	340				57.0	70		1000
14D221K	J	140	180	220(198-242)	360				60.0	78		900
14D241K	J	150	200	240(216-264)	395				63.0	84		830
14D271K	J	175	225	270(243-297)	455				70.0	99		740
14D301K	J	190	250	300(270-330)	500				77.0	108		670
14D331K	J	210	275	330(297-363)	550				85.0	115		610
14D361K	J	230	300	360(324-396)	595				93.0	130		560
14D391K	J	250	320	390(351-429)	650				100	140		510
14D431K	J	275	350	430(387-473)	710				115	155		460
14D471K	J	300	385	470(426-517)	775				125	175		430
14D511K	J	320	415	510(459-561)	845				125	180		390
14D561K	J	350	460	560(504-616)	925				125	185		360
14D621K	J	385	505	620(558-682)	1025				125	190		320
14D681K	J	420	560	680(612-748)	1120				130	200		290
14D751K	J	460	615	750(675-825)	1240				143	210		270
14D781K	J	485	640	780(702-858)	1290				148	220		260
14D821K	J	510	670	820(738-902)	1355				157	235		240

Part NumberΦ14.0mm		Maximum allowable voltage		Varistor voltage	Clamping voltage (Max.)		Maximum peak current (8/20μs)		Maximum peak current 8/20μs)		Rated power	Typical capacitance (Reference)
Standard	High surge	AC.rms (V)	DC (V)	V1.0mA (V)	VC (V)	IP (A)	Standard (A)	High surge (A)	Standard （J）	High surge（J）	（W）	@1KHz(pf)
14D911K	J	550	745	910(819-1001)	1500	50	4500	6000	175	255	0.6	220
14D102K	J	625	825	1000(900-1100)	1650				190	280		200
14D112K	**J**	680	895	1100(990-1210)	1815				213	310		180
14D122K	**J**	700	990	1200(1080-1320)	1880				213	310		150
14D182K	**J**	1100	1465	1800(1620-1980)	2970			5000	250	335		130

DIMENSIONS --Straight Type (unit： mm)



Part No.	D Max.	H Max.	L Min.	F±0.8	d±0.05	T Max.
14D182K	16.5	18.0	20.0	7.5	0.8	12.5
14D152K	16.5	18.0	20.0	7.5	0.8	11.0
14D112K	16.5	18.0	20.0	7.5	0.8	8.5
14D102K	16.5	18.0	20.0	7.5	0.8	7.8
14D911K	16.5	18.0	20.0	7.5	0.8	7.6
14D821K	16.5	18.0	20.0	7.5	0.8	7.2
14D781K	16.5	18.0	20.0	7.5	0.8	6.8
14D751K	16.5	18.0	20.0	7.5	0.8	6.5
14D681K	16.5	18.0	20.0	7.5	0.8	6.4
14D621K	16.5	18.0	20.0	7.5	0.8	6.4
14D561K	16.5	18.0	20.0	7.5	0.8	6.2
14D511K	16.5	18.0	20.0	7.5	0.8	5.8
14D471K	16.5	18.0	20.0	7.5	0.8	5.6
14D431K	16.5	18.0	20.0	7.5	0.8	5.3
14D391K	16.5	18.0	20.0	7.5	0.8	5.1
14D361K	16.5	18.0	20.0	7.5	0.8	5.0
14D331K	16.5	18.0	20.0	7.5	0.8	4.8
14D301K	16.5	18.0	20.0	7.5	0.8	4.7

Part No.	D Max.	H Max.	L Min.	F±0.8	d±0.05	T Max.
14D271K	16.5	18.0	20.0	7.5	0.8	4.5
14D241K	16.5	18.0	20.0	7.5	0.8	4.3
14D221K	16.5	18.0	20.0	7.5	0.8	4.2
14D201K	16.5	18.0	20.0	7.5	0.8	4.1
14D181K	16.5	18.0	20.0	7.5	0.8	4.1
14D151K	16.5	18.0	20.0	7.5	0.8	4.8
14D121K	16.5	18.0	20.0	7.5	0.8	4.5
14D101K	16.5	18.0	20.0	7.5	0.8	4.3
14D820K	16.5	18.0	20.0	7.5	0.8	4.1
14D680K	16.5	18.0	20.0	7.5	0.8	4.1
14D560K	16.5	18.0	20.0	7.5	0.8	4.1
14D470K	16.5	18.0	20.0	7.5	0.8	4.5
14D390K	16.5	18.0	20.0	7.5	0.8	4.5
14D330K	16.5	18.0	20.0	7.5	0.8	4.2
14D270K	16.5	18.0	20.0	7.5	0.8	4.0
14D220K	16.5	18.0	20.0	7.5	0.8	4.0
14D180K	16.5	18.0	20.0	7.5	0.8	4.0