

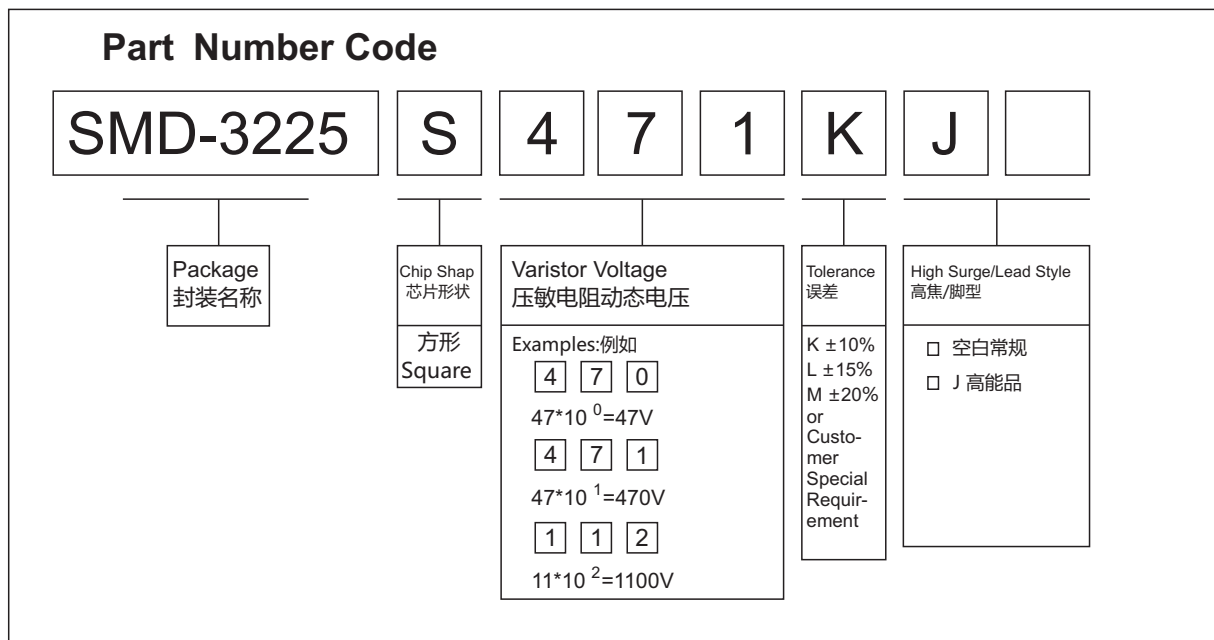


## Applications

- Surge protection in consumer electronics.
- Surge protection in industrial electronics.
- Surge protection in electronics home
- Appliances, gas and petroleum appliances.
- Relay and electromagnetic valve surge absorption

## Features

- Wide operating voltage (V1mA) range from 18V to 750V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Low clamping ratio and no following-on current





## Mechanical Requirements

Solderability	Min. 95% of The Terminal Should Be Covered With Solder Uniformly	Solder Temp:265±5°C Immersed Time: 2±0.5Sec.
Resistance of soldering heat	$\Delta V1mA/V1mA \leq \pm 10\%$	Solder Temp: 260±5°C
		Immersed Time: 10±1Sec.

## Environmental Requirements

High Temperature Storage	$\Delta V1mA/V1mA \leq \pm 10\%$	Ambient Temp: 125±2°C Duration:1000h		
Low Temperature Storage	$\Delta V1mA/V1mA \leq \pm 10\%$	Ambient Temp: -40±2°C Duration:1000h		
High Humidity Storage/Damp Heat	$\Delta V1mA/V1mA \leq \pm 10\%$	Ambient Temp: 40±2°C 90-95% R.H. Duration:1000h		
High Temperature Load	$\Delta V1mA/V1mA \leq \pm 10\%$	Ambient temp:85±2°C Duration:1000h Load: Max. Allowable Voltage		
Damp Heat Load/ Humidity Load	$\Delta V1mA/V1mA \leq \pm 10\%$	1.Temperature : 40±2°C 2.Humidity : 90~95% RH 3.Rated working voltage applied 4.Time : 500±2 hours 5.Test after placing in ambient temperature for 24 hours.		
Temperature Cycle	$\Delta V1mA/V1mA \leq \pm 10\%$	Step	Temperature	Period
		1	-50°C	30min
		2	Room Temp	15min
		3	125°C	30min
4	Room Temp	15min		
Operating Temperature Range	-40°C ~ +125°C	-40°C ~ +125°C		
Storage Temperature Range	-55°C ~ +125°C	-55°C ~ +125°C		

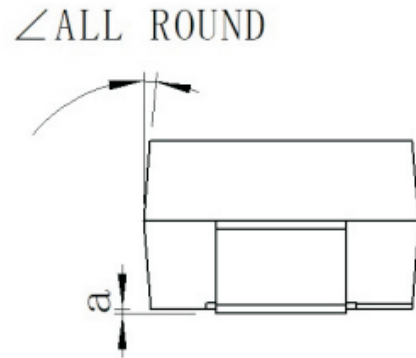
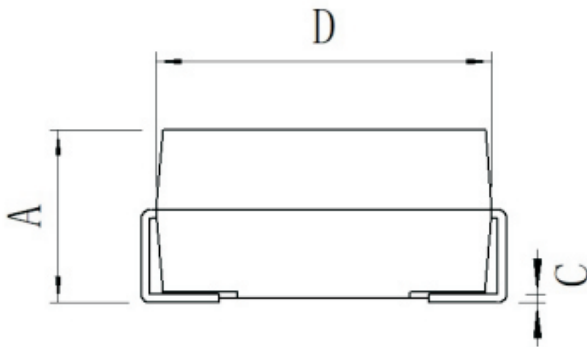


Characteristics at Ta = 25°C

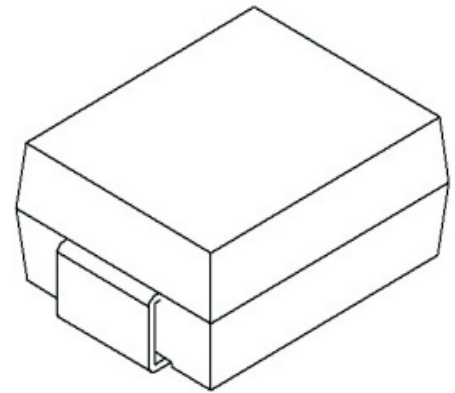
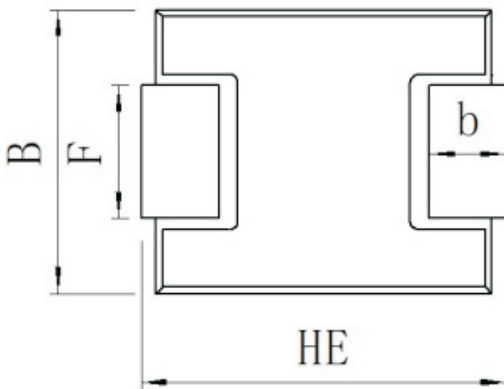
Type Number		Marking		Maximum Allowable Voltage		Varistor Voltage V <sub>1mA</sub>	Maximum Clamping Voltage		Withstanding Surge Current		Maximum Energy		Rated Power W	Typical Capacitance (Reference) @1KHz(pF)
				V <sub>AC</sub>	V <sub>DC</sub>		I <sub>T</sub>	V <sub>C</sub>	I(A) Standard	I(A) High Surge	(J) Standard	(J) High Surge		
Standard	High Surge	Standard	High Surge	V	V	V	A	V	A	A	J	J		
3225S180K	3225S180KJ	3225S180K	3225S180KJ	11	14	18(15~21.6)	2.5	36	250	500	0.9	2	0.02	2800
3225S220K	3225S220KJ	3225S220K	3225S220KJ	14	18	22(19.5~26)	2.5	43	250	500	1.1	2.4	0.02	2300
3225S270K	3225S270KJ	3225S270K	3225S270KJ	17	22	27(24~30)	2.5	53	250	500	1.4	3	0.02	1800
3225S330K	3225S330KJ	3225S330K	3225S330KJ	20	26	33(29.5~36.5)	2.5	66	250	500	1.7	3.5	0.02	1500
3225S390K	3225S390KJ	3225S390K	3225S390KJ	25	31	39(35~43)	2.5	77	250	500	2.1	4	0.02	1300
3225S470K	3225S470KJ	3225S470K	3225S470KJ	30	38	47(42~54)	2.5	93	250	500	2.5	5	0.02	1100
3225S560K	3225S560KJ	3225S560K	3225S560KJ	35	45	56(50~62)	2.5	110	250	500	3.1	6	0.02	900
3225S680K	3225S680KJ	3225S680K	3225S680KJ	40	56	68(61~75)	2.5	135	250	500	3.6	7	0.02	740
3225S820K	3225S820KJ	3225S820K	3225S820KJ	50	65	82(74~90)	10	135	1200	1750	5.5	10	0.25	600
3225S101K	3225S101KJ	3225S101K	3225S101KJ	60	85	100(90~110)	10	165	1200	1750	6.5	12	0.25	500
3225S121K	3225S121KJ	3225S121K	3225S121KJ	75	100	120(108~132)	10	200	1200	1750	7.8	13	0.25	420
3225S151K	3225S151KJ	3225S151K	3225S151KJ	95	125	150(135~165)	10	250	1200	1750	9.7	13	0.25	330
3225S181K	3225S181KJ	3225S181K	3225S181KJ	115	150	180(162~198)	10	300	1200	1750	11.7	16	0.25	280
3225S201K	3225S201KJ	3225S201K	3225S201KJ	130	170	200(180~220)	10	340	1200	1750	13	17	0.25	250
3225S221K	3225S221KJ	3225S221K	3225S221KJ	140	180	220(198~242)	10	360	1200	1750	14	19	0.25	230
3225S241K	3225S241KJ	3225S241K	3225S241KJ	150	200	240(216~264)	10	395	1200	1750	15	21	0.25	210
3225S271K	3225S271KJ	3225S271K	3225S271KJ	175	225	270(243~297)	10	455	1200	1750	18	24	0.25	185
3225S301K	3225S301KJ	3225S301K	3225S301KJ	190	250	300(270~330)	10	500	1200	1750	20	26	0.25	165
3225S331K	3225S331KJ	3225S331K	3225S331KJ	210	275	330(297~363)	10	550	1200	1750	23	28	0.25	150
3225S361K	3225S361KJ	3225S361K	3225S361KJ	230	300	360(324~396)	10	595	1200	1750	25	32	0.25	140
3225S391K	3225S391KJ	3225S391K	3225S391KJ	250	320	390(351~429)	10	650	1200	1750	25	35	0.25	130
3225S431K	3225S431KJ	3225S431K	3225S431KJ	275	350	430(387~473)	10	710	1200	1750	28	40	0.25	115
3225S471K	3225S471KJ	3225S471K	3225S471KJ	300	385	470(423~517)	10	775	1200	1750	30	42	0.25	105
3225S511K	3225S511KJ	3225S511K	3225S511KJ	320	415	510(459~561)	10	845	1200	1750	30	45	0.25	100
3225S561K	3225S561KJ	3225S561K	3225S561KJ	350	460	560(504~616)	10	925	1200	1750	30	49	0.25	90
3225S621K	3225S621KJ	3225S621K	3225S621KJ	385	505	620(558~682)	10	1025	1200	1750	33	55	0.25	80
3225S681K	3225S681KJ	3225S681K	3225S681KJ	420	560	680(612~748)	10	1120	1200	1750	33	60	0.25	75
3225S751K	3225S751KJ	3225S751K	3225S751KJ	460	615	750(675~825)	10	1240	1200	1750	67.2	65	0.25	70
3225S781K	3225S781KJ	3225S781K	3225S781KJ	485	640	780(702~858)	10	1290	1200	1750	67.2	65	0.25	70
3225S821K	3225S821KJ	3225S821K	3225S821KJ	510	670	820(738~902)	10	1355	1200	1750	67.2	70	0.25	60



SMD-3225封装概述  
Plastic surface mounted package; 2 leads



底视图  
bottom view



UNIT		A	HE	b	B	D	C	F	a	$\angle$
mm	max	4.10	8.68	2.00	6.60	8.00	0.30	3.10	0.2(ref)	5°
	typ	3.90	8.48	1.80	6.40	7.80	0.20	3.00		
	min	3.70	8.28	1.60	6.20	7.60	0.10	2.90		
mil	max	161	342	78	260	315	12	122	8(ref)	
	typ	154	334	71	252	307	8	118		
	min	146	326	63	244	299	4	114		