

片式防浪涌用压敏电阻器—SVMH 系列

Chip Varistor for Surge Suppression – SVMH Series



工作温度
Operating Temp

- ◆ -55°C ~+125°C

特征
Features

- ◆ SMD 结构, 体积小, 适合高密度安装
- ◆ 优异的限压比, 抗浪涌能力强
- ◆ 高压压敏, 适用于交流电路
- ◆ SMD type, small size suitable for high density mounting
- ◆ Excellent clamping ratio and strong capability of voltage surge suppression
- ◆ High voltage varistor, suitable for AC circuit

应用
Applications

- ◆ 电源、网通、LED 照明产品的雷电及浪涌过电压防护
- ◆ 有高度限制的电路中, 替代传统插件压敏
- ◆ Lightning protection and voltage surge suppression for power supply, network interface, LED lighting
- ◆ Able to replace part of leaded varistor in situations with limited height

产品型号
Product Identification

1	2	3	4	5	6	7	8
SVMH	2016	K	A	301	P	T	500

1	分类 Type
SVMH	片式防浪涌用压敏电阻器 Chip Varistor for Surge Suppression

2	外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)
2016 [0806]	2.2×1.6
3216 [1206]	3.2×1.6
3225 [1210]	3.2×2.5
4532 [1812]	4.6×3.5
5650 [2220]	6.0×5.3

3	压敏电压公差 Tolerance of Varistor Voltage
K	±10%

6	端头代号 Terminal Code
P	Ni, Sn Plating

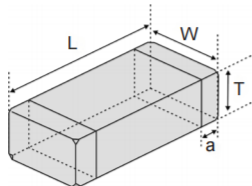
7	包装 Packing
T	编带 Tape & Reel

4	工作电压类型 Type of Working Voltage
A	交流工作电压 AC Working Voltage

5	最大持续工作电压 Max. Continuous Working Voltage
Example	Nominal Value
301	300V

8	脉冲电流 Peak Surge Current
500	50A
501	500A

外观尺寸
Shape and Dimensions



Type	L	W	T	a
SVMH2016 [0806]	2.2±0.2 [.087±.008]	1.6+0.4/-0.2 [.063+.016/-0.08]	2.0 Max. [.079]	0.25~0.75 [.010~.029]
SVMH3216 [1206]	3.2+0.6/-0.2 [.126+0.024/-0.08]	1.6+0.4/-0.2 [.063+.016/-0.08]	2.0 Max. [.079]	0.25~0.75 [.010~.029]
SVMH3225 [1210]	3.2+0.6/-0.2 [.126+0.024/-0.08]	2.5+0.4/-0.2 [.098+.016/-0.08]	2.6 Max. [.102]	0.25~0.75 [.010~.029]
SVMH4532 [1812]	4.6+0.6/-0.2 [.177+0.024/-0.08]	3.5+0.5/-0.2 [.126+.020/-0.08]	3.5 Max. [.138]	0.30~0.80 [.012~.031]
SVMH5650 [2220]	6.0+0.7/-0.3 [.236+.028/-0.12]	5.3+0.5/-0.3 [.209+.020/-0.12]	3.6 Max. [.142]	0.40~0.90 [.016~.034]

规格特性 Specifications

SVMH2016 TYPE

型号 Part Number	最大工作电压 Max. Working Voltage		压敏电压 Varistor Voltage	限制电压 Max. Clamping Voltage		额定脉冲耐受量 Rated Single Pulse Transient	
测试条件 Test Condition	<30μA		@1mA DC	8/20μs		Energy 10/1000μs	Peak Current 8/20μs
	DC	AC RMS					
单位 Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps
符号 Symbol	V _{WDC}	V _{WRMS}	V _B	V _C	I _C	E _T	I _P
SVMH2016KA151PT101	200	150	240[216-264]	360	5.0	0.36	100
SVMH2016KA151PT181	200	150	240[216-264]	360	5.0	0.36	180
SVMH2016KA171PT181	225	175	270[243-297]	410	5.0	0.40	180
SVMH2016KA191PT101	250	195	300[270-330]	450	5.0	0.40	100
SVMH2016KA211PT101	275	210	330[297-363]	495	5.0	0.36	100
SVMH2016KA231PT101	300	230	360[324-396]	540	5.0	0.36	100
SVMH2016KA251PT700	320	250	390[351-429]	590	5.0	0.30	70
SVMH2016KA251PT500	320	250	390[351-429]	590	5.0	0.36	50
SVMH2016KA271PT500	350	275	430[387-473]	650	5.0	0.40	50
SVMH2016KA301PT500	385	300	470[423-517]	710	5.0	0.30	50
SVMH2016KA321PT500	410	320	510[459-561]	880	5.0	0.30	50

SVMH3216 TYPE

型号 Part Number	最大工作电压 Max. Working Voltage		压敏电压 Varistor Voltage	限制电压 Max. Clamping Voltage		额定脉冲耐受量 Rated Single Pulse Transient	
测试条件 Test Condition	<30μA		@1mA DC	8/20μs		Energy 10/1000μs	Peak Current 8/20μs
	DC	AC RMS					
单位 Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps
符号 Symbol	V _{WDC}	V _{WRMS}	V _B	V _C	I _C	E _T	I _P
SVMH3216KA151PT301	200	150	240[216-264]	360	5.0	0.9	300
SVMH3216KA171PT301	225	175	270[243-297]	410	5.0	1.0	300
SVMH3216KA191PT201	250	195	300[270-330]	450	5.0	1.0	200
SVMH3216KA211PT201	275	210	330[297-363]	495	5.0	1.0	200
SVMH3216KA231PT201	300	230	360[324-396]	540	5.0	0.9	200
SVMH3216KA251PT101	320	250	390[351-429]	590	5.0	0.9	100
SVMH3216KA271PT101	350	275	430[387-473]	650	5.0	1.0	100
SVMH3216KA301PT101	385	300	470[423-517]	710	5.0	0.5	100
SVMH3216KA321PT600	410	320	510[459-561]	880	5.0	0.5	60

SVMH3225 TYPE

型号 Part Number	最大工作电压 Max. Working Voltage		压敏电压 Varistor Voltage	限制电压 Max. Clamping Voltage		额定脉冲耐受量 Rated Single Pulse Transient	
测试条件 Test Condition	<30μA		@1mA DC	8/20μs		Energy 10/1000μs	Peak Current 8/20μs
	DC	AC RMS					
单位 Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps
符号 Symbol	V _{WDC}	V _{WRMS}	V _B	V _C	I _C	E _T	I _P
SVMH3225KA151PT401	200	150	240[216-264]	360	5.0	1.8	400
SVMH3225KA171PT401	225	175	270[243-297]	410	5.0	2.0	400
SVMH3225KA191PT401	250	195	300[270-330]	450	5.0	2.0	400
SVMH3225KA211PT401	275	210	330[297-363]	495	5.0	1.8	400
SVMH3225KA231PT401	300	230	360[324-396]	540	5.0	1.8	400
SVMH3225KA251PT201	320	250	390[351-429]	590	5.0	1.8	200
SVMH3225KA271PT201	350	275	430[387-473]	650	5.0	1.8	200
SVMH3225KA301PT201	385	300	470[423-517]	710	5.0	2.0	200
SVMH3225KA301PT301	385	300	470[423-517]	710	5.0	2.0	300
SVMH3225KA301PT401	385	300	470[423-517]	710	5.0	2.0	400

规格特性 Specifications

SVMH3225 TYPE

型号 Part Number	最大工作电压 Max. Working Voltage		压敏电压 Varistor Voltage	限制电压 Max. Clamping Voltage		额定脉冲耐量 Rated Single Pulse Transient	
测试条件 Test Condition	<30μA		@1mA DC	8/20μs		Energy 10/1000μs	Peak Current 8/20μs
	DC	AC RMS					
单位 Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps
符号 Symbol	V _{WDC}	V _{WRAC}	V _B	V _C	I _C	E _T	I _P
SVMH3225KA321PT151	410	320	510[459-561]	880	5.0	2.0	150
SVMH3225KA321PT251	410	320	510[459-561]	880	5.0	2.0	250

SVMH4532 TYPE

型号 Part Number	最大工作电压 Max. Working Voltage		压敏电压 Varistor Voltage	限制电压 Max. Clamping Voltage		额定脉冲耐量 Rated Single Pulse Transient	
测试条件 Test Condition	<30μA		@1mA DC	8/20μs		Energy 10/1000μs	Peak Current 8/20μs
	DC	AC RMS					
单位 Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps
符号 Symbol	V _{WDC}	V _{WRAC}	V _B	V _C	I _C	E _T	I _P
SVMH4532KA171PT801	225	175	270[243-297]	410	5.0	7.2	800
SVMH4532KA191PT601	250	195	300[270-330]	495	5.0	7.2	600
SVMH4532KA271PT401	350	275	430[387-473]	650	5.0	5.0	400
SVMH4532KA301PT401	385	300	470[423-517]	710	5.0	7.2	400
SVMH4532KA301PT801	385	300	470[423-517]	710	5.0	5.0	800
SVMH4532KA321PT251	410	320	510[459-561]	880	5.0	5.0	250
SVMH4532KA321PT601	410	320	510[459-561]	880	5.0	5.0	600

SVMH5650 TYPE

型号 Part Number	最大工作电压 Max. Working Voltage		压敏电压 Varistor Voltage	限制电压 Max. Clamping Voltage		额定脉冲耐量 Rated Single Pulse Transient	
测试条件 Test Condition	<30μA		@1mA DC	8/20μs		Energy 10/1000μs	Peak Current 8/20μs
	DC	AC RMS					
单位 Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps
符号 Symbol	V _{WDC}	V _{WRAC}	V _B	V _C	I _C	E _T	I _P
SVMH5650KA151PT152	200	150	240[216-264]	395	10.0	10	1500
SVMH5650KA151PT182	200	150	240[216-264]	395	10.0	10	1800
SVMH5650KA171PT152	225	175	270[243-297]	455	10.0	10	1500
SVMH5650KA191PT122	250	195	300[270-330]	495	10.0	10	1200
SVMH5650KA191PT152	250	195	300[270-330]	495	10.0	10	1500
SVMH5650KA211PT122	275	210	330[297-363]	540	10.0	10	1200
SVMH5650KA211PT152	275	210	330[297-363]	540	10.0	10	1500
SVMH5650KA231PT122	300	230	360[324-396]	595	10.0	10	1200
SVMH5650KA231PT152	300	230	360[324-396]	595	10.0	10	1500
SVMH5650KA231PT202	300	230	360[324-396]	595	10.0	10	2000
SVMH5650KA251PT801	320	250	390[351-429]	650	10.0	10	800
SVMH5650KA271PT801	350	275	430[387-473]	710	10.0	10	800
SVMH5650KA301PT801	385	300	470[423-517]	775	10.0	10	800
SVMH5650KA301PT102	385	300	470[423-517]	775	10.0	10	1000
SVMH5650KA301PT122	385	300	470[423-517]	775	10.0	10	1200
SVMH5650KA321PT102	410	320	510[459-561]	845	10.0	10	1000
SVMH5650KA351PT102	455	350	560[504-616]	925	10.0	10	1000

※V_{AC} : 压敏电阻的最大交流工作电压必须大于或等于应用电路电压的1.2倍, V_{AC} ≥ 1.2 V_N

※V_{AC} : Max AC working voltage of Varistor must exceed or equal to 1.2 times that of the application circuit voltage, V_{AC} ≥ 1.2 V_N.

※I_P : 压敏电阻8/20μs的额定单脉冲电流必须大于或等于应用电路脉冲电流的1.2倍, I_P ≥ 1.2 I_{PN}

※I_P : Rated single pulse current at 8/20μs of Varistor must exceed or equal to 1.2 times that of the application circuit pulse current, I_P ≥ 1.2 I_{PN}.