

高浪涌叠层片式防浪涌用压敏电阻器—SDVL-HS 系列

High Surge type multilayer Chip Varistor for Surge Current Suppression-SDVL-HS Series

Operating Temp. : -55°C ~+125°C



特征 FEATURES

- SMD 结构, 体积小, 适合高密度安装, 可定制
- SMD type, small size suitable for high density mounting
- 高浪涌型, 抗浪涌能力强
- High surge and strong capability of voltage surge suppression
- 良好的焊接性能 (镍、锡电镀)
- Excellent solderability (Ni, Sn plating)

用途 APPLICATIONS

- 电源, 网通, LED 照明产品的雷电及浪涌过电压防护
- Lightning protection and voltage surge suppression for Power supply, Network Interface, LED lighting.
- 安防, 基站雷电及浪涌过电压防护
- Lightning protection and voltage surge suppression for security system, base station.
- 智能电表和工业仪表盘雷电及浪涌过电压防护
- Industrial instrument, smart meters, etc.

产品型号 PRODUCT IDENTIFICATION

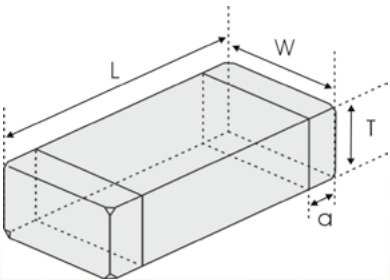
SDVL **5650** **S** **D** **480** **P** **T** **HS** **901**

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①	<table border="1"> <tr><th colspan="2">分类 Type</th></tr> <tr><td>SDVL</td><td>片式防浪涌用压敏电阻器 Chip Varistor for Voltage Surge Suppression</td></tr> </table>	分类 Type		SDVL	片式防浪涌用压敏电阻器 Chip Varistor for Voltage Surge Suppression	②	<table border="1"> <tr><th colspan="2">外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)</th></tr> <tr><td>1608 [0603]</td><td>1.6×0.8</td></tr> <tr><td>2016 [0806]</td><td>2.2×1.6</td></tr> <tr><td>3216 [1206]</td><td>3.2×1.6</td></tr> <tr><td>3225 [1210]</td><td>3.2×2.5</td></tr> <tr><td>4532 [1812]</td><td>4.5×3.2</td></tr> <tr><td>5650 [2220]</td><td>5.9×5.1</td></tr> </table>	外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)		1608 [0603]	1.6×0.8	2016 [0806]	2.2×1.6	3216 [1206]	3.2×1.6	3225 [1210]	3.2×2.5	4532 [1812]	4.5×3.2	5650 [2220]	5.9×5.1	③	<table border="1"> <tr><th colspan="2">压敏电压公差 Tolerance of Varistor Voltage</th></tr> <tr><td>S</td><td>Special</td></tr> </table>	压敏电压公差 Tolerance of Varistor Voltage		S	Special
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外观尺寸 SHAPE AND DIMENSIONS

Unit: mm [inch]



Type	L	W	T	a
SDVL1608 [0603]	1.6±0.15 [0.063±0.006]	0.8±0.15 [0.031±0.006]	1.0 Max [0.039]	0.10~0.50 [0.004~0.020]
SDVL2016 [0806]	2.2±0.2 [0.087±0.008]	1.6+0.4/-0.2 [0.063+0.016/-0.008]	2.0 Max [0.079]	0.25~0.75 [0.010~0.029]
SDVL3216 [1206]	3.2±0.2 [0.126±0.008]	1.6±0.2 [0.063±0.008]	2.0 Max [0.079]	0.25~0.75 [0.010~0.029]
SDVL3225 [1210]	3.2±0.3 [0.126±0.012]	2.5±0.25 [0.098±0.010]	2.5 Max. [0.098]	0.25~0.75 [0.010~0.029]
SDVL4532 [1812]	4.5±0.4 [0.177±0.016]	3.2±0.3 [0.126±0.012]	3.2 Max. [0.126]	0.25~1.0 [0.010~0.039]
SDVL5650 [2220]	5.9±0.2 [0.232±0.008]	5.1±0.2 [0.201±0.008]	3.2 Max [0.126]	0.25~1.3 [0.010~0.051]

规格特性 SPECIFICATION

SDVL1608-HS TYPE

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Max. Clamping Voltage 限制电压		Rated Single Pulse Transient 额定脉冲耐量		
	DC	AC RMS		@1mA DC	8/20µs		Energy 10/1000µs	Peak Current 8/20µs
Units 单位	Volts	Volts	Volts		Volts	Amps	Joules	Amps
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C	I _C	E _T	I _P	I _N
SDVL1608SD090PTHS101	9	6.4	14.0 [11.0-16.0]	30	1.0	0.10	100	60
SDVL1608SD180PTHS101	18	12.7	25.0 [22.0-28.0]	45	1.0	0.10	100	60
SDVL1608SD300PTHS101	30	21.3	42.0 [37.0-46.0]	70	1.0	0.10	100	60
SDVL1608SD380PTHS800	38	30.0	50.0 [46.0-54.0]	80	1.0	0.08	80	50
SDVL1608SD480PTHS600	48	34.1	60.0 [54.0-67.0]	110	1.0	0.08	60	40
SDVL1608SD560PTHS300	56	40.0	68.0 [61.0-75.0]	125	1.0	0.05	30	20
SDVL1608SD600PTHS300	60	46.0	76.0 [69.0-83.0]	130	1.0	0.05	30	20
SDVL1608SD650PTHS300	65	50.0	82.0 [73.0-91.0]	135	1.0	0.05	30	20
SDVL1608SD850PTHS200	85	60.0	100.0 [90.0-110.0]	165	1.0	0.03	20	12
SDVL1608SD101PTHS200	100	75.0	120.0 [108.0-132.0]	200	1.0	0.03	20	12

SDVL2016-HS TYPE

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Max. Clamping Voltage 限制电压		Rated Single Pulse Transient 额定脉冲耐量		
	DC	AC RMS		@1mA DC	8/20µs		Energy 10/1000µs	Peak Current 8/20µs
Units 单位	Volts	Volts	Volts		Volts	Amps	Joules	Amps
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C	I _C	E _T	I _P	I _N
SDVL2016SD090PTHS401	9	6.4	14.0 [11.0-16.0]	30	5.0	0.5	400	250
SDVL2016SD180PTHS401	18	12.7	25.0 [22.0-28.0]	45	5.0	0.5	400	250
SDVL2016SD300PTHS401	30	21.3	42.0 [37.0-46.0]	70	5.0	0.5	400	250
SDVL2016SD380PTHS401	38	30.0	50.0 [46.0-54.0]	80	5.0	0.7	400	250
SDVL2016SD480PTHS301	48	34.1	60.0 [54.0-67.0]	110	5.0	0.7	300	200
SDVL2016SD560PTHS301	56	40.0	68.0 [61.0-75.0]	125	5.0	0.7	300	200
SDVL2016SD600PTHS301	60	46.0	76.0 [69.0-83.0]	130	5.0	0.7	300	200
SDVL2016SD650PTHS301	65	50.0	82.0 [73.0-91.0]	135	5.0	0.7	300	200
SDVL2016SD850PTHS201	85	60.0	100.0 [90.0-110.0]	165	5.0	0.7	200	120
SDVL2016SD101PTHS201	100	75.0	120.0 [108.0-132.0]	200	5.0	0.7	200	120
SDVL2016SD121PTHS151	125	95.0	150.0 [135.0-165.0]	260	5.0	0.5	150	100
SDVL2016SD151PTHS101	150	115	180.0 [162.0-198.0]	325	5.0	0.5	100	70

SDVL3216-HS TYPE

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Max. Clamping Voltage 限制电压		Rated Single Pulse Transient 额定脉冲耐量		
	DC	AC RMS		@1mA DC	8/20µs		Energy 10/1000µs	Peak Current 8/20µs
Units 单位	Volts	Volts	Volts		Volts	Amps	Joules	Amps
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C	I _C	E _T	I _P	I _N
SDVL3216SD090PTHS501	9	6.4	14.0 [12.0-16.0]	30	5.0	0.5	500	300
SDVL3216SD180PTHS251	18	12.7	25.0 [22.0-28.0]	45	5.0	0.3	250	150

规格特性 SPECIFICATION

SDVL3216-HS TYPE

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Max. Clamping Voltage 限制电压		Rated Single Pulse Transient 额定脉冲耐量		
	DC	AC RMS		@1mA DC	8/20µs		Energy 10/1000µs	Peak Current 8/20µs
Test Condition 测试条件	Volts	Volts	Volts		Volts	Amps	Joules	Amps
Units 单位	Volts	Volts	Volts	Volts	Amps	Joules	Amps	Amps
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C	I _C	E _T	I _P	I _N
SDVL3216SD180PTHS501	18	12.7	25.0 [22.0-28.0]	45	5.0	0.5	500	300
SDVL3216SD300PTHS201	30	21.3	42.0 [37.0-46.0]	70	5.0	0.4	200	120
SDVL3216SD300PTHS501	30	21.3	42.0 [37.0-46.0]	70	5.0	0.8	500	300
SDVL3216SD380PTHS201	38	30.0	50.0 [46.0-54.0]	80	5.0	0.4	200	120
SDVL3216SD380PTHS501	38	30.0	50.0 [46.0-54.0]	80	5.0	1.0	500	300
SDVL3216SD480PTHS151	48	34.1	60.0 [54.0-67.0]	110	5.0	0.4	150	100
SDVL3216SD480PTHS501	48	34.1	60.0 [54.0-67.0]	110	5.0	1.2	500	300
SDVL3216SD560PTHS151	56	40.0	68.0 [61.0-75.0]	125	5.0	0.4	150	100
SDVL3216SD560PTHS501	56	40.0	68.0 [61.0-75.0]	125	5.0	1.2	500	300
SDVL3216SD600PTHS151	60	46.0	76.0 [69.0-83.0]	130	5.0	0.4	150	100
SDVL3216SD600PTHS501	60	46.0	76.0 [69.0-83.0]	130	5.0	1.2	500	300
SDVL3216SD650PTHS151	65	50.0	82.0 [73.0-91.0]	135	5.0	0.6	150	100
SDVL3216SD650PTHS501	65	50.0	82.0 [73.0-91.0]	135	5.0	1.2	500	300
SDVL3216SD850PTHS151	85	60.0	100.0 [90.0-110.0]	165	5.0	0.6	150	100
SDVL3216SD850PTHS401	85	60.0	100.0 [90.0-110.0]	165	5.0	1.2	400	250
SDVL3216SD101PTHS151	100	75.0	120.0 [108.0-132.0]	200	5.0	0.6	150	100
SDVL3216SD101PTHS401	100	75.0	120.0 [108.0-132.0]	200	5.0	1.2	400	250

SDVL3225-HS TYPE

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Max. Clamping Voltage 限制电压		Rated Single Pulse Transient 额定脉冲耐量		
	DC	AC RMS		@1mA DC	8/20µs		Energy 10/1000µs	Peak Current 8/20µs
Test Condition 测试条件	Volts	Volts	Volts		Volts	Amps	Joules	Amps
Units 单位	Volts	Volts	Volts	Volts	Amps	Joules	Amps	Amps
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C	I _C	E _T	I _P	I _N
SDVL3225SD090PTHS401	9	6.4	14.0 [12.0-16.0]	30	5.0	0.5	400	250
SDVL3225SD180PTHS401	18	12.7	25.0 [22.0-28.0]	45	5.0	0.5	400	250
SDVL3225SD180PTHS102	18	12.7	25.0 [22.0-28.0]	45	5.0	1.5	1000	700
SDVL3225SD300PTHS401	30	21.3	42.0 [37.0-46.0]	70	5.0	0.5	400	250
SDVL3225SD300PTHS102	30	21.3	42.0 [37.0-46.0]	70	5.0	2.0	1000	700
SDVL3225SD380PTHS301	38	30.0	50.0 [46.0-54.0]	80	5.0	0.8	300	200
SDVL3225SD380PTHS102	38	30.0	50.0 [46.0-54.0]	80	5.0	2.5	1000	700
SDVL3225SD480PTHS301	48	34.1	60.0 [54.0-67.0]	110	5.0	0.8	300	200
SDVL3225SD480PTHS102	48	34.1	60.0 [54.0-67.0]	110	5.0	3.0	1000	700
SDVL3225SD560PTHS301	56	40.0	68.0 [61.0-75.0]	125	5.0	1.0	300	200
SDVL3225SD560PTHS122	56	40.0	68.0 [61.0-75.0]	125	5.0	4.0	1200	800
SDVL3225SD600PTHS301	60	46.0	76.0 [69.0-83.0]	130	5.0	1.0	300	200
SDVL3225SD600PTHS801	60	46.0	76.0 [69.0-83.0]	130	5.0	4.0	800	500
SDVL3225SD600PTHS122	60	46.0	76.0 [69.0-83.0]	130	5.0	4.0	1200	800
SDVL3225SD650PTHS301	65	50.0	82.0 [73.0-91.0]	135	5.0	1.6	300	200
SDVL3225SD650PTHS122	65	50.0	82.0 [73.0-91.0]	135	5.0	4.0	1200	800
SDVL3225SD850PTHS201	85	60.0	100.0 [90.0-110.0]	165	5.0	0.7	200	140
SDVL3225SD850PTHS401	85	60.0	100.0 [90.0-110.0]	165	5.0	1.6	400	250

规格特性 SPECIFICATION

SDVL3225-HS TYPE

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Max. Clamping Voltage 限制电压		Rated Single Pulse Transient 额定脉冲耐量		
	<40 μ A			@1mA DC	8/20 μ s		Energy 10/1000 μ s	Peak Current 8/20 μ s
Test Condition 测试条件	DC	AC RMS	Volts		Volts	Amps		
Units 单位	Volts	Volts	Volts	Volts	Amps	Joules	Amps	Amps
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C	I _C	E _T	I _P	I _N
SDVL3225SD101PTHS201	100	75.0	120.0 [108.0-132.0]	200	5.0	1.0	200	140
SDVL3225SD101PTHS102	100	75.0	120.0 [108.0-132.0]	200	5.0	5.0	1000	700

SDVL4532-HS TYPE

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Max. Clamping Voltage 限制电压		Rated Single Pulse Transient 额定脉冲耐量		
	<40 μ A			@1mA DC	8/20 μ s		Energy 10/1000 μ s	Peak Current 8/20 μ s
Test Condition 测试条件	DC	AC RMS	Volts		Volts	Amps		
Units 单位	Volts	Volts	Volts	Volts	Amps	Joules	Amps	Amps
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C	I _C	E _T	I _P	I _N
SDVL4532SD090PTHS801	9	6.4	14.0 [12.0-16.0]	30	5.0	0.5	800	500
SDVL4532SD180PTHS801	18	12.7	25.0 [22.0-28.0]	45	5.0	0.5	800	500
SDVL4532SD180PTHS202	18	12.7	25.0 [22.0-28.0]	45	5.0	1.3	2000	1200
SDVL4532SD300PTHS801	30	21.3	42.0 [37.0-46.0]	70	5.0	0.7	800	500
SDVL4532SD300PTHS202	30	21.3	42.0 [37.0-46.0]	70	5.0	2.0	2000	1200
SDVL4532SD380PTHS801	38	30.0	50.0 [46.0-54.0]	80	5.0	1.0	800	500
SDVL4532SD380PTHS202	38	30.0	50.0 [46.0-54.0]	80	5.0	2.5	2000	1200
SDVL4532SD480PTHS601	48	34.1	60.0 [54.0-67.0]	110	5.0	1.1	600	400
SDVL4532SD480PTHS202	48	34.1	60.0 [54.0-67.0]	110	5.0	3.0	2000	1200
SDVL4532SD560PTHS601	56	40.0	68.0 [61.0-75.0]	125	5.0	1.1	600	400
SDVL4532SD560PTHS202	56	40.0	68.0 [61.0-75.0]	125	5.0	3.5	2000	1200
SDVL4532SD600PTHS601	60	46.0	76.0 [69.0-83.0]	130	5.0	1.1	600	400
SDVL4532SD600PTHS202	60	46.0	76.0 [69.0-83.0]	130	5.0	3.0	2000	1200
SDVL4532SD650PTHS601	65	50.0	82.0 [73.0-91.0]	135	5.0	1.5	600	400
SDVL4532SD650PTHS302	65	50.0	82.0 [73.0-91.0]	135	5.0	7.5	3000	1800
SDVL4532SD850PTHS501	85	60.0	100.0 [90.0-110.0]	165	5.0	2.0	500	300
SDVL4532SD850PTHS152	85	60.0	100.0 [90.0-110.0]	165	5.0	7.0	1500	1000
SDVL4532SD101PTHS501	100	75.0	120.0 [108.0-132.0]	200	5.0	2.0	500	300
SDVL4532SD101PTHS152	100	75.0	120.0 [108.0-132.0]	200	5.0	7.0	1500	1000
SDVL4532SD121PTHS801	125	95.0	150.0 [135.0-165.0]	260	5.0	0.5	800	500
SDVL4532SD151PTHS501	150	115	180.0 [162.0-198.0]	325	5.0	0.5	500	300

规格特性 SPECIFICATION

SDVL5650-HS TYPE

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Max. Clamping Voltage 限制电压		Rated Single Pulse Transient 额定脉冲耐量		
	<40 μ A			@1mA DC	8/20 μ s		Energy 10/1000 μ s	Peak Current 8/20 μ s
Test Condition 测试条件	DC	AC RMS	Volts		Volts	Amps		
Units 单位	Volts	Volts	Volts	Volts	Amps	Joules	Amps	Amps
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C	I _C	E _T	I _P	I _N
SDVL5650SD090PTHS122	9	6.4	14.0 [12.0-16.0]	30	10.0	1.5	1200	800
SDVL5650SD180PTHS122	18	12.7	25.0 [22.0-28.0]	45	10.0	1.5	1200	800
SDVL5650SD180PTHS302	18	12.7	25.0 [22.0-28.0]	45	10.0	4.0	3000	2000
SDVL5650SD300PTHS122	30	21.3	42.0 [37.0-46.0]	70	10.0	2.6	1200	800
SDVL5650SD300PTHS302	30	21.3	42.0 [37.0-46.0]	70	10.0	7.0	3000	2000
SDVL5650SD380PTHS122	38	30.0	50.0 [46.0-54.0]	80	10.0	2.6	1200	800
SDVL5650SD380PTHS302	38	30.0	50.0 [46.0-54.0]	80	10.0	8.0	3000	2000
SDVL5650SD380PTHS502	38	30.0	50.0 [46.0-54.0]	80	10.0	10.0	5000	3000
SDVL5650SD380PTHS802	38	30.0	50.0 [46.0-54.0]	80	10.0	16.0	8000	5000
SDVL5650SD480PTHS901	48	34.1	60.0 [54.0-67.0]	110	10.0	3.0	900	600
SDVL5650SD480PTHS302	48	34.1	60.0 [54.0-67.0]	110	10.0	10.0	3000	2000
SDVL5650SD560PTHS901	56	40.0	68.0 [61.0-75.0]	125	10.0	3.0	900	600
SDVL5650SD560PTHS502	56	40.0	68.0 [61.0-75.0]	125	10.0	17.0	5000	3000
SDVL5650SD600PTHS901	60	46.0	76.0 [69.0-83.0]	130	10.0	2.7	900	600
SDVL5650SD600PTHS502	60	46.0	76.0 [69.0-83.0]	130	10.0	15.0	5000	3000
SDVL5650SD650PTHS901	65	50.0	82.0 [73.0-91.0]	135	10.0	3.0	900	600
SDVL5650SD650PTHS302	65	50.0	82.0 [73.0-91.0]	135	10.0	10.0	3000	2000
SDVL5650SD650PTHS502	65	50.0	82.0 [73.0-91.0]	135	10.0	18.0	5000	3000
SDVL5650SD850PTHS801	85	60.0	100.0 [90.0-110.0]	165	10.0	4.0	800	500
SDVL5650SD850PTHS452	85	60.0	100.0 [90.0-110.0]	165	10.0	21.0	4500	3000
SDVL5650SD101PTHS801	100	75.0	120.0 [108.0-132.0]	200	10.0	4.0	800	500
SDVL5650SD101PTHS402	100	75.0	120.0 [108.0-132.0]	200	10.0	21.0	4000	2500
SDVL5650SD121PTHS202	125	95.0	150.0 [135.0-165.0]	260	5.0	12.0	2000	1200
SDVL5650SD151PTHS152	150	115	180.0 [162.0-198.0]	325	5.0	12.0	1500	1000