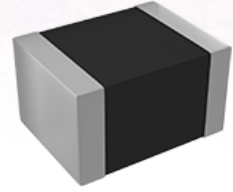


叠层片式压敏电阻器—SDV 系列

Multilayer Chip Varistor - SDV Series

Operating Temp. : -55°C ~+125°C



特征 FEATURES

- SMD 结构适合高密度安装
- SMD type suitable for high density mounting
- 优异的限压比，响应时间短 (<0.5ns)
- Excellent clamping ratio and quick response time (<0.5ns)
- 良好的焊接性能（镍、锡电镀）
- Excellent solderability (Ni, Sn plating)

用途 APPLICATIONS

- IC 和晶体管的过电压保护
- Transient voltage protection for IC and transistor
- USB、MIPI 等接口 ESD 防护
- ESD protection such as USB2.0, MIPI etc.
- MOSFET 保护
- MOSFET protection
- 手机、TV 等便携式设备保护
- Portable equipment protection, such as mobile phone, TV, etc.

产品型号 PRODUCT IDENTIFICATION

SDV **1608** **A** **180** **C121** **N** **P** **T** **F**
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①

分类 Type	
SDV	片式压敏电阻器 Chip Varistor

②

外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)	
1005 [0402]	1.0×0.5
1608 [0603]	1.6×0.8
2012 [0805]	2.0×1.25

③

特征代号 Feature Code	
A	For General Use
E	For ESD
H	For High Speed
S	For Special Request

④

直流工作电压 Maximum Continuous Working Voltage	
Example	Nominal Value
5R5	5.5V
180	18V

⑤

电容 Capacitance @1MHz	
Example	Nominal Value
C121	120pF

⑥

电容公差 Tolerance of Capacitance	
N	±30%
Y	+100%~-50%
G	Maximum

⑦

端头代号 Terminal Code	
P	Ni, Sn Plating

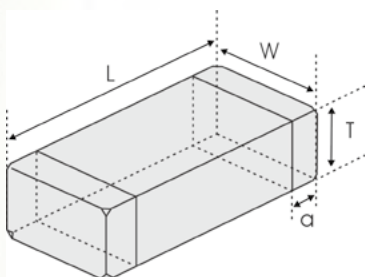
⑧

包装 Packing	
T	编带 Tape & Reel

⑨

无有害物质产品 Hazardous Substance Free Products	
F	

外观尺寸 SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
SDV1005 [0402]	1.0±0.15 [.039±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]
SDV1608 [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]
SDV2012 [0805]	2.0±0.2 [.079±.008]	1.25±0.2 [.049±.008]	0.85±0.2 [.033±.008]	0.5±0.3 [.020±.012]

SDV1608A 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		Typical Capacitance 电容
	DC	AC RMS		8/20µs	ESD	Energy 10/1000µs	Peak Current 8/20µs	
Test Condition 测试条件	<20µA		@1mA DC					@0.5Vrms, 1MHz
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	VWDC	VWAC	VB	VC*1	VC*2	ET	IP	C
SDV1608A5R5C121 □ PTF	5.5	4.0	10.0-14.0	18	23	0.05	20	120
SDV1608A5R5C141 □ PTF	5.5	4.0	10.0-14.0	18	23	0.05	20	140
SDV1608A5R5C231 □ PTF	5.5	4.0	10.0-14.0	18	23	0.1	30	230
SDV1608A5R5C361 □ PTF	5.5	4.0	10.0-14.0	18	23	0.1	30	360
SDV1608A090C121 □ PTF	9.0	6.4	11.0-16.0	20	26	0.05	20	120
SDV1608A090C141 □ PTF	9.0	6.4	11.0-16.0	20	26	0.05	20	140
SDV1608A090C201 □ PTF	9.0	6.4	11.0-16.0	20	26	0.1	30	200
SDV1608A090C231 □ PTF	9.0	6.4	11.0-16.0	20	26	0.1	30	230
SDV1608A090C361 □ PTF	9.0	6.4	11.0-16.0	20	26	0.1	30	360
SDV1608A140C121 □ PTF	14.0	10.0	16.0-22.0	30	39	0.05	20	120
SDV1608A140C141 □ PTF	14.0	10.0	16.0-22.0	30	39	0.05	20	140
SDV1608A140C251 □ PTF	14.0	10.0	16.0-22.0	30	39	0.1	30	250
SDV1608A140C361 □ PTF	14.0	10.0	16.0-22.0	30	39	0.1	30	360
SDV1608A180C121 □ PTF	18.0	12.7	22.0-28.0	40	48	0.05	20	120
SDV1608A180C141 □ PTF	18.0	12.7	22.0-28.0	40	48	0.05	20	140
SDV1608A180C231 □ PTF	18.0	12.7	22.0-28.0	40	48	0.1	30	230
SDV1608A180C361 □ PTF	18.0	12.7	22.0-28.0	40	48	0.1	30	360
SDV1608A220C121 □ PTF	22.0	15.6	26.0-34.0	45	54	0.05	20	120
SDV1608A220C141 □ PTF	22.0	15.6	26.0-34.0	45	54	0.05	20	140
SDV1608A220C161 □ PTF	22.0	15.6	26.0-34.0	45	54	0.1	30	160
SDV1608A220C231 □ PTF	22.0	15.6	26.0-34.0	45	54	0.1	30	230
SDV1608A260C121 □ PTF	26.0	18.4	31.0-38.0	58	70	0.1	30	120
SDV1608A260C161 □ PTF	26.0	18.4	31.0-38.0	58	70	0.1	30	160
SDV1608A300C121 □ PTF	30.0	21.3	37.0-46.0	65	78	0.1	30	120
SDV1608A300C141 □ PTF	30.0	21.3	37.0-46.0	65	78	0.1	30	140

SDV2012A 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		Typical Capacitance 电容
	DC	AC RMS		8/20µs		Energy 10/1000µs	Peak Current 8/20µs	
Test Condition 测试条件	<20µA		@1mA DC					@0.5Vrms, 1MHz
Units 单位	Volts	Volts	Volts	Volts		Joules	Amps	pF
Symbol 符号	VWDC	VWAC	VB	VC*1		ET	IP	C
SDV2012A5R5C901 □ PTF	5.5	4.0	10.0-14.0	18		0.2	60	900
SDV2012A5R5C122 □ PTF	5.5	4.0	10.0-14.0	18		0.3	120	1200
SDV2012A090C701 □ PTF	9.0	6.4	11.0-16.0	20		0.2	60	700
SDV2012A090C102 □ PTF	9.0	6.4	11.0-16.0	20		0.3	120	1000
SDV2012A140C401 □ PTF	14.0	10.0	16.0-22.0	30		0.2	60	400
SDV2012A140C701 □ PTF	14.0	10.0	16.0-22.0	30		0.3	120	700
SDV2012A140C901 □ PTF	14.0	10.0	16.0-22.0	30		0.4	150	900
SDV2012A180C301 □ PTF	18.0	12.7	22.0-28.0	40		0.2	60	300
SDV2012A180C501 □ PTF	18.0	12.7	22.0-28.0	40		0.3	120	500
SDV2012A180C701 □ PTF	18.0	12.7	22.0-28.0	40		0.4	150	700
SDV2012A220C251 □ PTF	22.0	15.6	26.0-34.0	45		0.2	60	250
SDV2012A220C401 □ PTF	22.0	15.6	26.0-34.0	45		0.3	120	400

规格特性 SPECIFICATION

SDV2012A 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		Typical Capacitance 电容
Test Condition 测试条件	<20μA		@1mA DC	8/20μs	Energy 10/1000μs	Peak Current 8/20μs	@0.5Vrms, 1MHz
	DC	AC RMS					
Units 单位	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	VWDC	VWAC	VB	VC*1	ET	IP	C
SDV2012A220C501 □ PTF	22.0	15.6	26.0-34.0	45	0.3	120	500
SDV2012A260C251 □ PTF	26.0	18.4	31.0-38.0	58	0.2	60	250
SDV2012A260C401 □ PTF	26.0	18.4	31.0-38.0	58	0.3	120	400
SDV2012A300C181 □ PTF	30.0	21.3	37.0-46.0	65	0.2	60	180
SDV2012A300C301 □ PTF	30.0	21.3	37.0-46.0	65	0.3	120	300

SDV1005E 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		Typical Capacitance 电容
Test Condition 测试条件	<20μA		@1mA DC	8/20μs	ESD	Energy 10/1000μs	Peak Current 8/20μs	@0.5Vrms, 1MHz
	DC	AC RMS						
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	VWDC	VWAC	VB	VC*1	VC*2	ET	IP	C
SDV1005E5R5C180 □ PTF	5.5	4.0	10.0-14.0	18	23	0.005	3	18
SDV1005E5R5C300 □ PTF	5.5	4.0	10.0-14.0	18	23	0.005	5	30
SDV1005E5R5C400 □ PTF	5.5	4.0	10.0-14.0	18	23	0.005	5	40
SDV1005E5R5C500 □ PTF	5.5	4.0	10.0-14.0	18	23	0.01	10	50
SDV1005E5R5C700 □ PTF	5.5	4.0	10.0-14.0	18	23	0.01	10	70
SDV1005E5R5C800 □ PTF	5.5	4.0	10.0-14.0	18	23	0.02	10	80
SDV1005E090C180 □ PTF	9.0	6.4	11.0-16.0	20	26	0.005	3	18
SDV1005E090C300 □ PTF	9.0	6.4	11.0-16.0	20	26	0.005	5	30
SDV1005E090C500 □ PTF	9.0	6.4	11.0-16.0	20	26	0.01	10	50
SDV1005E090C800 □ PTF	9.0	6.4	11.0-16.0	20	26	0.02	15	80
SDV1005E140C180 □ PTF	14.0	10.0	16.0-22.0	30	39	0.005	3	18
SDV1005E140C300 □ PTF	14.0	10.0	16.0-22.0	30	39	0.01	5	30
SDV1005E140C500 □ PTF	14.0	10.0	16.0-22.0	30	39	0.02	10	50
SDV1005E140C800 □ PTF	14.0	10.0	16.0-22.0	30	39	0.03	15	80
SDV1005E180C150 □ PTF	18.0	12.7	22.0-28.0	40	48	0.005	2	15
SDV1005E180C180 □ PTF	18.0	12.7	22.0-28.0	40	48	0.01	5	18
SDV1005E180C300 □ PTF	18.0	12.7	22.0-28.0	40	48	0.02	10	30
SDV1005E180C500 □ PTF	18.0	12.7	22.0-28.0	40	48	0.02	10	50
SDV1005E180C800 □ PTF	18.0	12.7	22.0-28.0	40	48	0.03	15	80
SDV1005E220C150 □ PTF	22.0	15.6	26.0-34.0	45	54	0.005	2	15
SDV1005E220C180 □ PTF	22.0	15.6	26.0-34.0	45	54	0.01	5	18
SDV1005E220C300 □ PTF	22.0	15.6	26.0-34.0	45	54	0.02	10	30
SDV1005E220C500 □ PTF	22.0	15.6	26.0-34.0	45	54	0.02	10	50
SDV1005E260C180 □ PTF	26.0	18.4	31.0-38.0	58	70	0.02	5	18
SDV1005E260C300 □ PTF	26.0	18.4	31.0-38.0	58	70	0.03	10	30

规格特性 SPECIFICATION

SDV1608E 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		Typical Capacitance 电容
	DC	AC RMS		8/20 μ s	ESD	Energy 10/1000 μ s	Peak Current 8/20 μ s	
Test Condition 测试条件	<20 μ A		@1mA DC	8/20 μ s	ESD	Energy 10/1000 μ s	Peak Current 8/20 μ s	@0.5Vrms, 1MHz
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	VWDC	VWAC	VB	VC*1	VC*2	ET	IP	C
SDV1608E5R5C180 □ PTF	5.5	4.0	10.0-14.0	18	23	0.005	3	18
SDV1608E5R5C300 □ PTF	5.5	4.0	10.0-14.0	18	23	0.005	5	30
SDV1608E5R5C500 □ PTF	5.5	4.0	10.0-14.0	18	23	0.01	10	50
SDV1608E5R5C800 □ PTF	5.5	4.0	10.0-14.0	18	23	0.02	10	80
SDV1608E5R5C101 □ PTF	5.5	4.0	10.0-14.0	18	23	0.05	20	100
SDV1608E090C180 □ PTF	9.0	6.4	11.0-16.0	20	26	0.005	3	18
SDV1608E090C300 □ PTF	9.0	6.4	11.0-16.0	20	26	0.005	5	30
SDV1608E090C500 □ PTF	9.0	6.4	11.0-16.0	20	26	0.01	10	50
SDV1608E090C800 □ PTF	9.0	6.4	11.0-16.0	20	26	0.02	15	80
SDV1608E090C101 □ PTF	9.0	6.4	11.0-16.0	20	26	0.05	20	100
SDV1608E140C180 □ PTF	14.0	10.0	16.0-22.0	30	39	0.005	3	18
SDV1608E140C300 □ PTF	14.0	10.0	16.0-22.0	30	39	0.01	5	30
SDV1608E140C500 □ PTF	14.0	10.0	16.0-22.0	30	39	0.02	10	50
SDV1608E140C800 □ PTF	14.0	10.0	16.0-22.0	30	39	0.03	15	80
SDV1608E140C101 □ PTF	14.0	10.0	16.0-22.0	30	39	0.05	20	100
SDV1608E180C180 □ PTF	18.0	12.7	22.0-28.0	40	48	0.005	5	18
SDV1608E180C300 □ PTF	18.0	12.7	22.0-28.0	40	48	0.02	10	30
SDV1608E180C600 □ PTF	18.0	12.7	22.0-28.0	40	48	0.02	10	60
SDV1608E180C800 □ PTF	18.0	12.7	22.0-28.0	40	48	0.03	15	80
SDV1608E180C101 □ PTF	18.0	12.7	22.0-28.0	40	48	0.05	20	100
SDV1608E220C180 □ PTF	22.0	15.6	26.0-34.0	45	54	0.005	5	18
SDV1608E220C300 □ PTF	22.0	15.6	26.0-34.0	45	54	0.02	10	30
SDV1608E220C500 □ PTF	22.0	15.6	26.0-34.0	45	54	0.02	10	50
SDV1608E220C800 □ PTF	22.0	15.6	26.0-34.0	45	54	0.03	15	80
SDV1608E220C101 □ PTF	22.0	15.6	26.0-34.0	45	54	0.05	20	100
SDV1608E260C180 □ PTF	26.0	18.4	31.0-38.0	58	70	0.02	5	18
SDV1608E260C300 □ PTF	26.0	18.4	31.0-38.0	58	70	0.03	10	30
SDV1608E260C500 □ PTF	26.0	18.4	31.0-38.0	58	70	0.03	10	50

SDV2012E 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		Typical Capacitance 电容
	DC	AC RMS		8/20 μ s	ESD	Energy 10/1000 μ s	Peak Current 8/20 μ s	
Test Condition 测试条件	<20 μ A		@1mA DC	8/20 μ s	ESD	Energy 10/1000 μ s	Peak Current 8/20 μ s	@0.5Vrms, 1MHz
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	VWDC	VWAC	VB	VC*1	VC*2	ET	IP	C
SDV2012E5R5C180 □ PTF	5.5	4.0	10.0-14.0	18	23	0.005	3	18
SDV2012E180C101 □ PTF	18.0	12.7	22.0-28.0	40	48	0.05	20	100
SDV2012E260C800 □ PTF	26.0	18.4	31.0-38.0	58	70	0.05	20	80
SDV2012E220C101 □ PTF	22.0	15.6	26.0-34.0	45	54	0.05	20	100
SDV2012E300C500 □ PTF	30.0	21.3	37.0-46.0	65	78	0.05	15	50

规格特性 SPECIFICATION

SDV1005H 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		Typical Capacitance 电容
Test Condition 测试条件	<20μA		@1mA DC	8/20μs	ESD	Energy 10/1000μs	Peak Current 8/20μs	@0.5V _{rms} , 1MHz
	DC	AC RMS						
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	VWDC	VWAC	VB	VC*1	Vc*2	ET	IP	C
SDV1005H140C100 □ PTF	14.0	10.0	16.0-22.0	30	39	0.005	2	10
SDV1005H140C120 □ PTF	14.0	10.0	16.0-22.0	30	39	0.005	2	12
SDV1005H180C050 □ PTF	18.0	12.7	22.0-28.0	40	48	0.005	2	5
SDV1005H180C100 □ PTF	18.0	12.7	22.0-28.0	40	48	0.005	2	10
SDV1005H220C030YPTF	22.0	15.6	26.0-34.0	45	54	0.003	1	3
SDV1005H220C050YPTF	22.0	15.6	26.0-34.0	45	54	0.005	2	5
SDV1005H220C100 □ PTF	22.0	15.6	26.0-34.0	45	54	0.005	2	10
SDV1005H220C120 □ PTF	22.0	15.6	26.0-34.0	45	54	0.005	2	12
SDV1005H260C030 □ PTF	26.0	18.4	31.0-38.0	58	70	0.003	1	3
SDV1005H260C100 □ PTF	26.0	18.4	31.0-38.0	58	70	0.005	2	10
SDV1005H260C120 □ PTF	26.0	18.4	31.0-38.0	58	70	0.005	2	12

SDV1608H 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		Typical Capacitance 电容
Test Condition 测试条件	<20μA		@1mA DC	8/20μs	ESD	Energy 10/1000μs	Peak Current 8/20μs	@0.5V _{rms} , 1MHz
	DC	AC RMS						
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	VWDC	VWAC	VB	VC*1	VC*2	ET	IP	C
SDV1608H140C100 □ PTF	14.0	10.0	16.0-22.0	30	39	0.005	2	10
SDV1608H140C120 □ PTF	14.0	10.0	16.0-22.0	30	39	0.005	2	12
SDV1608H180C050 □ PTF	18.0	12.7	22.0-28.0	40	48	0.003	1	5
SDV1608H180C100 □ PTF	18.0	12.7	22.0-28.0	40	48	0.005	2	10
SDV1608H180C120 □ PTF	18.0	12.7	22.0-28.0	40	48	0.005	2	12
SDV1608H220C030YPTF	22.0	15.6	26.0-34.0	45	54	0.003	1	3
SDV1608H220C050YPTF	22.0	15.6	26.0-34.0	45	54	0.003	1	5
SDV1608H220C100 □ PTF	22.0	15.6	26.0-34.0	45	54	0.005	2	10
SDV1608H220C120 □ PTF	22.0	15.6	26.0-34.0	45	54	0.005	2	12
SDV1608H260C030 □ PTF	26.0	18.4	31.0-38.0	58	70	0.003	1	3
SDV1608H260C100 □ PTF	26.0	18.4	31.0-38.0	58	70	0.005	2	10
SDV1608H260C120 □ PTF	26.0	18.4	31.0-38.0	58	70	0.005	2	12
SDV1608H300C100 □ PTF	30.0	21.3	37.0-46.0	65	78	0.005	2	10
SDV1608H480C100 □ PTF	48.0	34.1	54.0-67.0	100	120	0.005	5	10

SDV1005S 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		Typical Capacitance 电容
Test Condition 测试条件	<20μA		@1mA DC	8/20μs	ESD	Energy 10/1000μs	Peak Current 8/20μs	@0.5V _{rms} , 1MHz
	DC	AC RMS						
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C ^{*1}	V _C ^{*2}	E _T	I _P	C
SDV1005S5R5C030 □ PTF	5.5	4.0	31.0-38.0	58	70	0.003	1	3
SDV1005S5R5C050 □ PTF	5.5	4.0	22.0-28.0	40	48	0.003	1	5
SDV1005S5R5C100 □ PTF	5.5	4.0	22.0-28.0	40	48	0.005	2	10
SDV1005S5R5C120 □ PTF	5.5	4.0	22.0-28.0	40	48	0.005	2	12

规格特性 SPECIFICATION

SDV1005S 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		Typical Capacitance 电容
Test Condition 测试条件	<20μA		@1mA DC	8/20μs	ESD	Energy 10/1000μs	Peak Current 8/20μs	@0.5V _{rms} , 1MHz
	DC	AC RMS						
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C ^{*1}	V _C ^{*2}	E _T	I _P	C
SDV1005S090C030 □ PTF	9.0	6.4	31.0-38.0	58	70	0.003	1	3
SDV1005S090C050 □ PTF	9.0	6.4	22.0-28.0	40	48	0.003	1	5
SDV1005S090C100 □ PTF	9.0	6.4	22.0-28.0	40	48	0.005	2	10
SDV1005S090C120 □ PTF	9.0	6.4	22.0-28.0	40	48	0.005	2	12
SDV1005S140C030 □ PTF	14.0	10.0	31.0-38.0	58	70	0.003	1	3
SDV1005S140C050 □ PTF	14.0	10.0	22.0-28.0	40	48	0.003	1	5
SDV1005S180C030 □ PTF	18.0	12.7	31.0-38.0	58	70	0.003	1	3

SDV1608S 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		Typical Capacitance 电容
Test Condition 测试条件	<20μA		@1mA DC	8/20μs	ESD	Energy 10/1000μs	Peak Current 8/20μs	@0.5V _{rms} , 1MHz
	DC	AC RMS						
Units 单位	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol 符号	V _{WDC}	V _{WAC}	V _B	V _C ^{*1}	V _C ^{*2}	E _T	I _P	C
SDV1608S5R5C030 □ PTF	5.5	4.0	31.0-38.0	58	70	0.003	1	3
SDV1608S5R5C050 □ PTF	5.5	4.0	22.0-28.0	40	48	0.003	1	5
SDV1608S5R5C100 □ PTF	5.5	4.0	22.0-28.0	40	48	0.005	2	10
SDV1608S5R5C120 □ PTF	5.5	4.0	22.0-28.0	40	48	0.005	2	12
SDV1608S090C030 □ PTF	9.0	6.4	31.0-38.0	58	70	0.003	1	3
SDV1608S090C050 □ PTF	9.0	6.4	22.0-28.0	40	48	0.003	1	5
SDV1608S090C100 □ PTF	9.0	6.4	22.0-28.0	40	48	0.005	2	10
SDV1608S090C120 □ PTF	9.0	6.4	22.0-28.0	40	48	0.005	2	12
SDV1608S140C030 □ PTF	14.0	10.0	31.0-38.0	58	70	0.003	1	3
SDV1608S140C050 □ PTF	14.0	10.0	22.0-28.0	40	48	0.003	1	5
SDV1608S180C030 □ PTF	18.0	12.7	31.0-38.0	58	70	0.003	1	3

※V_{DC}: Max DC working voltage of varistor must exceed or equal to 1.5 times that of the application circuit voltage, V_{DC} ≥ 1.5 V_n.

※□: Please specify the capacitance tolerance code (N=±30%, Y=+100%~-50%, G=Maximum).

※*1: V_C, Maximum peak voltage across the varistor measured at a specified pulse current and waveform.

Energy Rating Pulse & Waveform

0.00-0.05 Joule 1A, 8/20μs

0.10 Joule 2A, 8/20μs

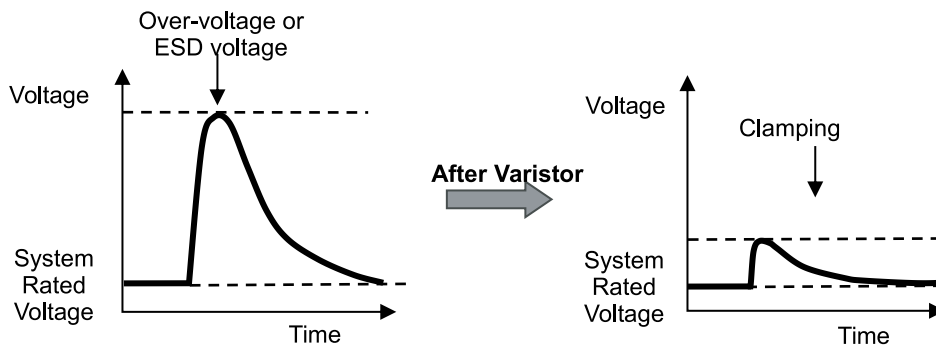
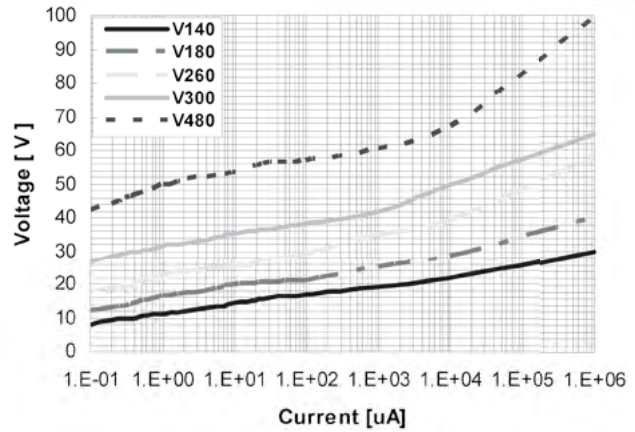
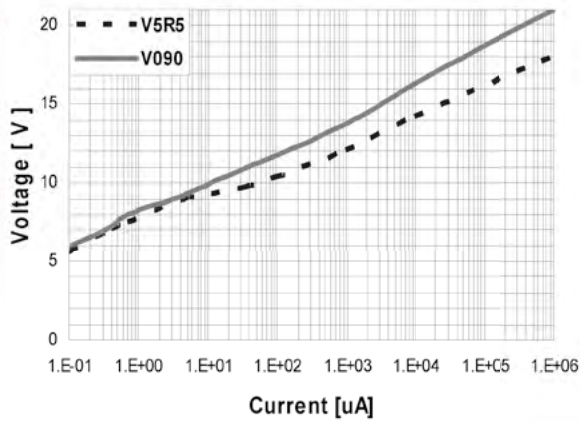
0.20-0.50 Joule 5A, 8/20μs

※*2: V_C, Maximum peak voltage across the varistor measured at 30ns after initiation of pulse on IEC61000-4-2 30A/8kV.

And products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

电气特性 TYPICAL ELECTRICAL CHARACTERISTICS

SDV-A/E/H series



规格特性 SPECIFICATION

Ultra low capacitance type (C=0.5pF, 1pF or 2pF)

Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Typical Capacitance 电容	Min. Cut-off Frequency 截止频率
Test Condition 测试条件	<20μA		@1mA DC	@0.5V _{rms} , 1MHz	@-3dB
	DC	AC RMS			
Units 单位	Volts	Volts	Volts	pF	MHz
Symbol 符号	V _{WDC}	V _{WAC}	V _B	C	f ₀
SDV1005H260C0R5YPTF	26.0	18.4	100-160	0.5	2000
SDV1005H260C010YPTF	26.0	18.4	100-160	1	1250
SDV1005H260C020YPTF	26.0	18.4	60-80	2	600
SDV1005S5R5C0R5YPTF	5.5	4.0	100-160	0.5	2000
SDV1005S5R5C010YPTF	5.5	4.0	100-160	1	1250
SDV1005S5R5C020YPTF	5.5	4.0	60-80	2	600
SDV1005S090C0R5YPTF	9.0	6.4	100-160	0.5	2000
SDV1005S090C010YPTF	9.0	6.4	100-160	1	1250
SDV1005S090C020YPTF	9.0	6.4	60-80	2	600
SDV1005S140C0R5YPTF	14.0	10.0	100-160	0.5	2000
SDV1005S140C010YPTF	14.0	10.0	100-160	1	1250
SDV1005S140C020YPTF	14.0	10.0	60-80	2	600
SDV1005S180C0R5YPTF	18.0	12.7	100-160	0.5	2000

规格特性 SPECIFICATION

Ultra low capacitance type (C=0.5pF, 1pF or 2pF)

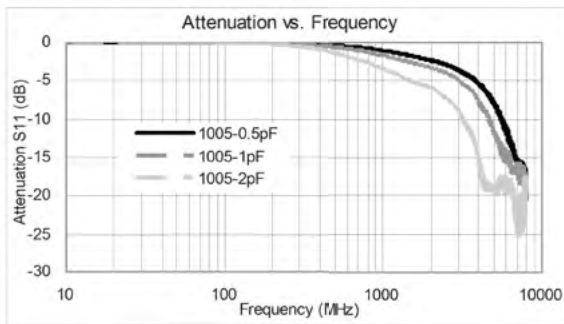
Part Number 型号	Max. Working Voltage 最大工作电压		Varistor Voltage 压敏电压	Typical Capacitance 电容	Min. Cut-off Frequency 截止频率
Test Condition 测试条件	<20 μ A		@1mA DC	@0.5V _{rms} , 1MHz	@-3dB
	DC	AC RMS			
Units 单位	Volts	Volts	Volts	pF	MHz
Symbol 符号	V _{WDC}	V _{WAC}	V _B	C	f ₀
SDV1005S180C010YPTF	18.0	12.7	100-160	1	1250
SDV1005S180C020YPTF	18.0	12.7	60-80	2	600
SDV1608H260C0R5YPTF	26.0	18.4	100-160	0.5	2000
SDV1608H260C010YPTF	26.0	18.4	100-160	1	1250
SDV1608H260C020YPTF	26.0	18.4	60-80	2	600
SDV1608S5R5C0R5YPTF	5.5	4.0	100-160	0.5	2000
SDV1608S5R5C010YPTF	5.5	4.0	100-160	1	1250
SDV1608S5R5C020YPTF	5.5	4.0	60-80	2	600
SDV1608S090C0R5YPTF	9.0	6.4	100-160	0.5	2000
SDV1608S090C010YPTF	9.0	6.4	100-160	1	1250
SDV1608S090C020YPTF	9.0	6.4	60-80	2	600
SDV1608S140C0R5YPTF	14.0	10.0	100-160	0.5	2000
SDV1608S140C010YPTF	14.0	10.0	100-160	1	1250
SDV1608S140C020YPTF	14.0	10.0	60-80	2	600
SDV1608S180C0R5YPTF	18.0	12.7	100-160	0.5	2000
SDV1608S180C010YPTF	18.0	12.7	100-160	1	1250
SDV1608S180C020YPTF	18.0	12.7	60-80	2	600

※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

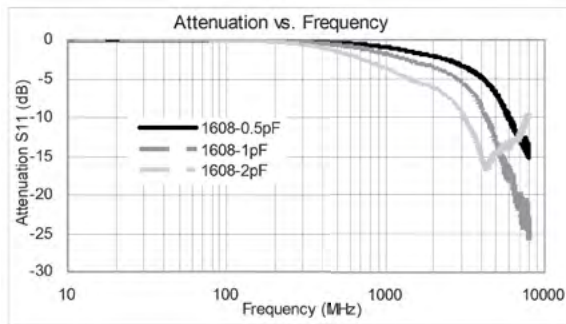
电气特性 TYPICAL ELECTRICAL CHARACTERISTICS

Ultra low capacitance type: SDV1005/SDV1608 series, C=0.5pF, 1pF, 2pF

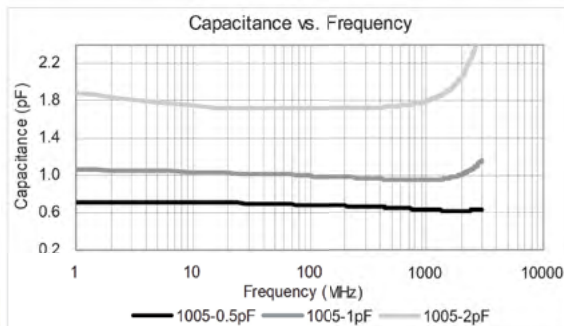
SDV1005 series



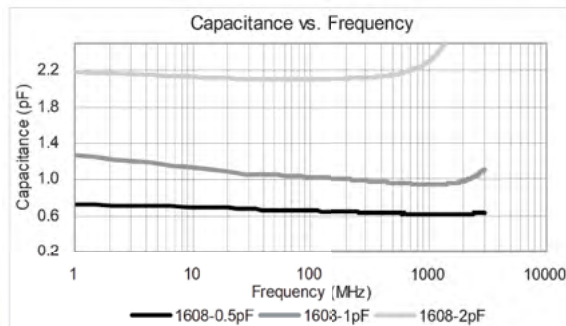
SDV1608 series



SDV1005 series



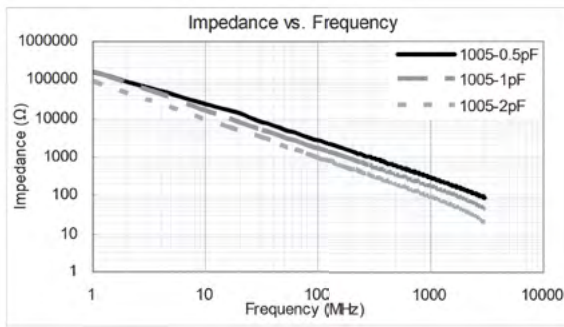
SDV1608 series



电气特性 TYPICAL ELECTRICAL CHARACTERISTICS

Ultra low capacitance type: SDV1005/SDV1608 series, C=0.5pF, 1pF, 2pF

SDV1005 series



SDV1608 series

