

SMD 1206 Multilayer Varistor



FEATURES

- Surface mount multilayer surge suppressor
- Inherent bidirectional clamping
- Excellent energy/volume ratio
- Suitable for reflow soldering
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE

APPLICATIONS

Over-voltage and transient voltage protection:

- Data lines and I/O port protection
- Protection against ESD transients
- On-board protection of IC's and transistors
- Modem protection
- LCD protection

DESCRIPTION

Size 1206 (M3216) multilayer chip varistor with NiSn terminations.

PACKAGING

Available in 8 mm embossed carrier tape, component pitch 4 mm on 180 mm reels containing 3000 pieces.

QUICK REFERENCE DATA

PARAMETER	VALUE	UNIT
Maximum continuous voltage DC	5.6 to 65.0	V
AC	4.0 to 45.0	V
Maximum clamping voltage at 1 A	22.0 to 135.0	V
Capacitance range (at 1 kHz)	240 to 1500	pF
Maximum energy (10/1000 μ s)	0.5 to 1.1	J
Maximum peak current (8/20 μ s)	100 to 200	A
Operating temperature range	-55 to 85	$^{\circ}$ C
Weight	\pm 0.025	g

ELECTRICAL DATA AND ORDERING INFORMATION

WORKING VOLTAGE		BREAKDOWN VOLTAGE	CLAMPING VOLTAGE	MAX. PEAK CURRENT	MAXIMUM ENERGY	CAPACITANCE	PART NUMBER
V_{RMS}	V_{DC}	V_b	V_C	I_p	E_t	C	SAP
V	V	V	V	A	J	pF	MLV1206E3
	< 50 μ A	1 mA	1 A, 8/20 μ s	8/20 μ s	10/1000 μ s	1 kHz	
4.0	5.6	7.0 to 10.0	22.0	150	1.0	3000	0403T
11.0	14.0	16.2 to 19.8	37.0	200	0.5	800	1103T
14.0	18.0	21.6 to 26.0	48.0	200	1.0	1300	1403T
20.0	26.0	31.0 to 38.0	62.0	200	1.0	900	2003T
25.0	30.0	37.0 to 46.0	73.0	200	1.0	550	2503T
30.0	38.0	42.3 to 51.7	88.0	200	1.1	500	3003T
35.0	45.0	50.4 to 61.6	95.0	180	0.8	550	3503T
40.0	56.0	61.0 to 77.0	120.0	180	1.0	380	4003T
45.0	65.0	73.8 to 90.2	135.0	100	0.6	240	4503T

Notes

- Sinusoidal voltage assumed as normal operating condition.
If a non-sinusoidal voltage is present, the crest voltage x 0.707 should be used for type selection.
- Breakdown voltage at a current of 1 mA, measured according to 4.5 of IEC 61051-1.
- Parts are not recommended for automotive applications.

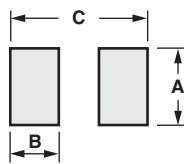


DIIMENSIONS in millimeters



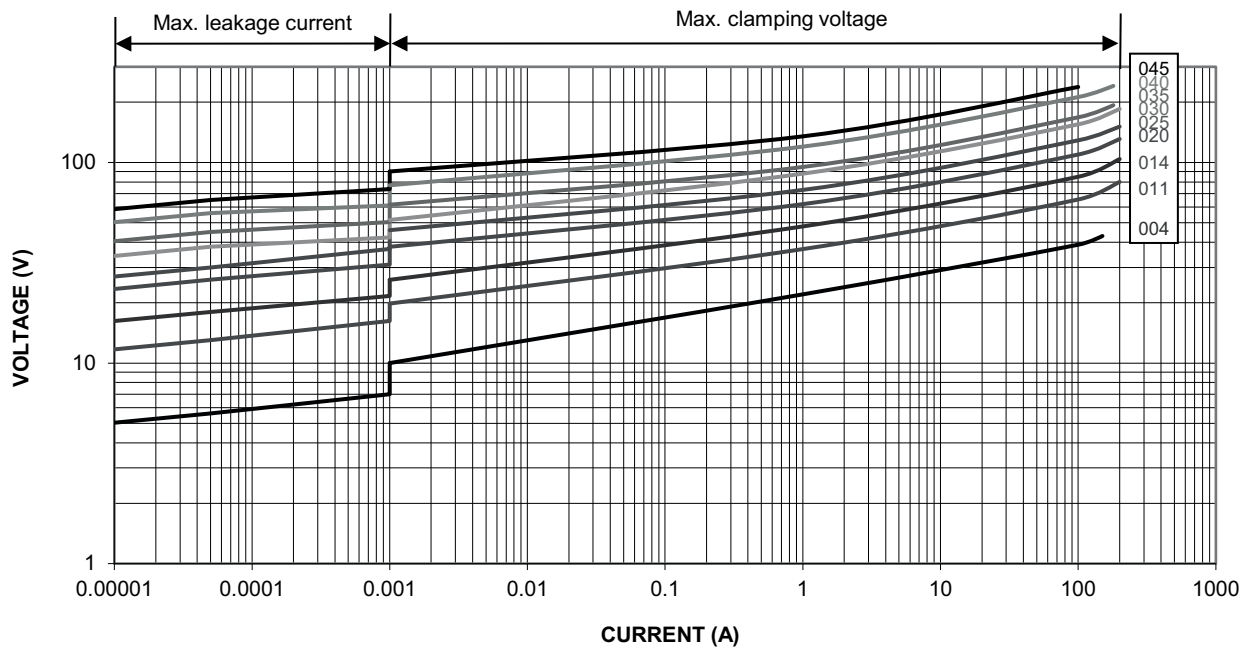
L ₁	W	T	L ₂ and L ₃
3.2 ± 0.2	1.6 ± 0.2	1.8 max.	0.71 max.

RECOMMENDED FOOTPRINT in millimeters



A	B	C
1.8	1.2	3.9

V/I CHARACTERISTICS





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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
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Как с нами связаться

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