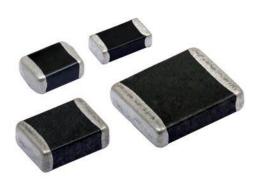


Vishay BCcomponents

SMD 1206 Multilayer Varistor



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 μs)	0.5 to 1.1	J		
Maximum peak current (8/20 μs)	100 to 200	А		
Operating temperature range	-55 to 85	°C		
Weight	± 0.025	g		

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





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.

LECTRICAL 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	Et	С	SAP
V	V	V	V	Α	J	pF	MLV1206E3
	< 50 μA	1 mA	1 A, 8/20 μs	8/20 μs	10/1000 μs	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

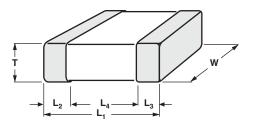
Notes

- 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.



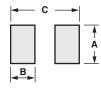
Vishay BCcomponents

DIIMENSIONS in millimeters



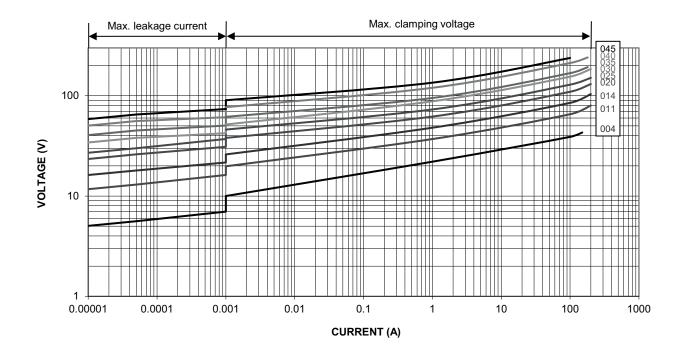
L ₁	W	Т	L ₂ and L ₃
3.2 ± 0.2	1.6 ± 0.2	1.8 max.	0.71 max.

RECOMMENDED FOOTPRINT in millimeters



Α	В	С
1.8	1.2	3.9

V/I CHARACTERISTICS





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Revision: 02-Oct-12 Document Number: 91000

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