

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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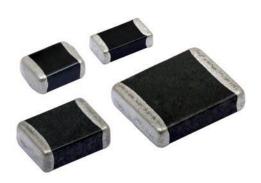






Vishay BCcomponents

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 <u>www.vishay.com/doc?99912</u>





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.

LECTRI	LECTRICAL DATA AND ORDERING INFORMATION							
WORKING	G 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	
٧	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	

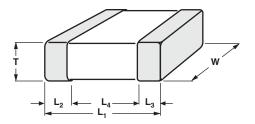
Notes

- 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.



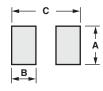
Vishay BCcomponents

DIIMENSIONS in millimeters



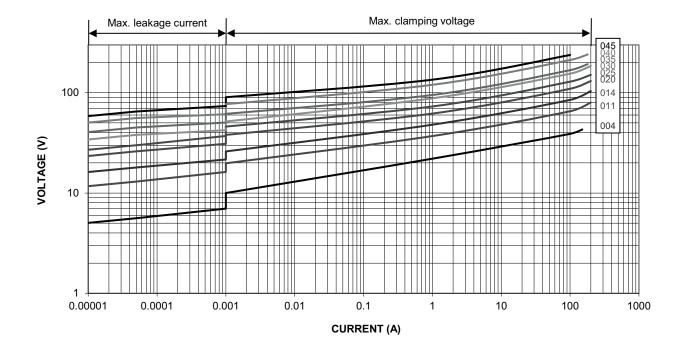
L ₁	W	Т	L ₂ and L ₃
3.2 ± 0.2	1.6 ± 0.2	1.8 max.	0.71 max.

RECOMMENDED FOOTPRINT in millimeters



Α	В	С
1.8	1.2	3.9

V/I CHARACTERISTICS





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Vishay

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