Vishay BCcomponents



SMD 0805 Multilayer Varistor



QUICK REFERENCE DATA					
PARAMETER	VALUE	UNIT			
Maximum Continuous Voltage DC AC	5.6 to 30.0 4.0 to 25.0	٧			
Maximum Clamping Voltage at 1 A	15.5 to 65	V			
Capacitance Range (at 1 MHz)	80 to 860	pF			
Maximum Energy (10/1000 μs)	0.1	J			
Maximum Peak Current	30 to 40	Α			
Operating Temperature Range	- 55 to 125	°C			
Climatic Category	55/125/56				
Weight	± 0.011	g			

FEATURES





- · Inherent bidirectional clamping
- · Excellent energy/volume ratio
- · Suitable for reflow soldering

- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC

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 0805 (2012M) multilayer chip varistor with NiSn terminations.

PACKAGING

Available in 8 mm paper tape and reel.

ELECTRICAL DATA AND ORDERING INFORMATION							
WORKING	S VOLTAGE	BREAKDOWN VOLTAGE (1 mA)	MAXIMUM CLAMPING VOLTAGE (1 A)	PEAK CURRENT (8/20 µs)	TYPICAL CAPACITANCE (1 MHz)	PART N	UMBER
V _{RMS}	V _{DC}	V _b	V _C	l _P	С	12NC	SAP
V	V	V	V	Α	pF	2381 553	MLV0805E3
4.0	5.6	7.1 to 9.3	15.5	40	860	40406	0403T
7.0	9.0	11.0 to 14.0	20.0	40	585	40706	0703T
11.0	14.0	16.5 to 20.3	30.0	40	280	41106	1103T
25.0	30.0	37.0 to 46.0	65.0	30	80	42506	2503T

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.
- Voltage at a current of 1 mA, measured according to 4.3 of CECC 42 000.
- · Parts are not recommended for automotive applications.

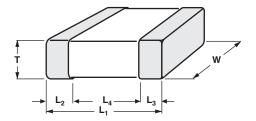
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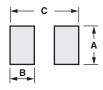
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DIMENSIONS in millimeters



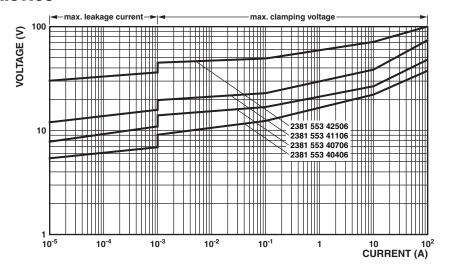
L ₁	W	Т	L ₂ and L ₃	
2.0 ± 0.2	1.25 ± 0.2	1.0 max.	0.4 ± 0.3	

RECOMMENDED FOOTPRINT in millimeters



A	В	С
1.4	1.2	3.4

V/I CHARACTERISTICS



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