Vishay BCcomponents



SMD 0603 Multilayer Varistor



QUICK REFERENCE DATA					
PARAMETER	VALUE	UNIT			
Maximum Continuous Voltage DC AC	5.6 to 30.0 4.0 to 25.0	V			
Maximum Clamping Voltage at 1 A	15.5 to 65	V			
Capacitance Range (at 1 MHz)	150 to 825	pF			
Maximum Energy (10/1000 μs)	0.1	J			
Maximum Peak Current	30	Α			
Operating Temperature Range	- 55 to 125	°C			
Climatic Category	55/125/56				
Weight	± 0.005	g			

FEATURES

- Surface mount multilayer surge suppressor
- · 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



RoHS

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 0603 (1608M) multilayer chip varistor with NiSn terminations.

PACKAGING

Available in 8 mm paper tape and reel.

ELECTRICA	ELECTRICAL DATA AND ORDERING INFORMATION					
WORKING	G VOLTAGE	BREAKDOWN VOLTAGE (1 mA)	MAXIMUM CLAMPING VOLTAGE (1 A)	TYPICAL CAPACITANCE (1 MHz)	PART N	NUMBER
V _{RMS}	V _{DC}	V _b	v _c	С	12NC	SAP
V	v	V	V	pF	2381 553	MLV0603E3
4.0	5.6	7.1 to 9.3	15.5	825	30406	0403T
7.0	9.0	11.0 to 14.0	20.0	550	30706	0703T
11.0	14.0	16.0 to 20.0	30.0	425	31106	1103T
14.0	18.0	23.0 to 28.0	40.0	225	31406	1403T
20.0	26.0	31.0 to 38.0	58.0	160	32006	2003T
25.0	30.0	37.0 to 46.0	65.0	150	32506	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.

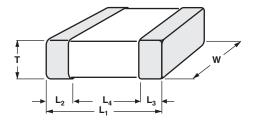
Document Number: 29108 Revision: 24-Apr-09



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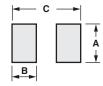
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DIMENSIONS in millimeters



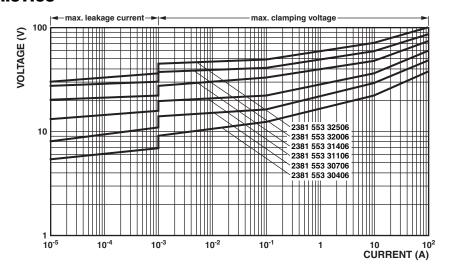
L ₁	w	Т	L ₂ and L ₃
1.6 ± 0.15	0.8 ± 0.15	0.9 max.	0.35 ± 0.15

RECOMMENDED FOOTPRINT in millimeters



A	В	С
1.0	1.0	3.0

V/I CHARACTERISTICS



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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