

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	MLV0603E32003T
Manufacturer:	Vishay Beyschlag/Draloric/BC Components
Package:	0603 (1608 Metric)
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/vishay-beyschlag-draloric-bc-components/mlv0603e32003t.html>



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Contact Information

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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

PACKAGING

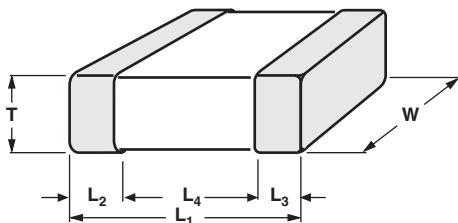
Available in 8 mm paper tape, component pitch 4 mm on 180 mm reels containing 4000 pieces.

QUICK REFERENCE DATA		
PARAMETER	VALUE	UNIT
Maximum continuous voltage		
DC	5.6 to 30.0	V
AC	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 μ s)	0.1	J
Maximum peak current	30	A
Operating temperature range	-55 to 125	°C
Weight	± 0.005	g

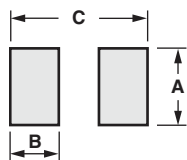
ELECTRICAL DATA AND ORDERING INFORMATION					
WORKING VOLTAGE		BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE	TYPICAL CAPACITANCE	PART NUMBER
V_{RMS}	V_{DC}	V_b	V_c	C	SAP
V	V	V	V	pF	MLV0603E3
	< 10 μ A	1 mA	1 A, 8/20 μ s	1 MHz	
4.0	5.6	7.1 to 9.3	15.5	825	0403T
7.0	9.0	11.0 to 14.0	20.0	550	0703T
11.0	14.0	16.0 to 20.0	30.0	425	1103T
14.0	18.0	23.0 to 28.0	40.0	225	1403T
20.0	26.0	31.0 to 38.0	58.0	160	2003T
25.0	30.0	37.0 to 46.0	65.0	150	2503T

Notes

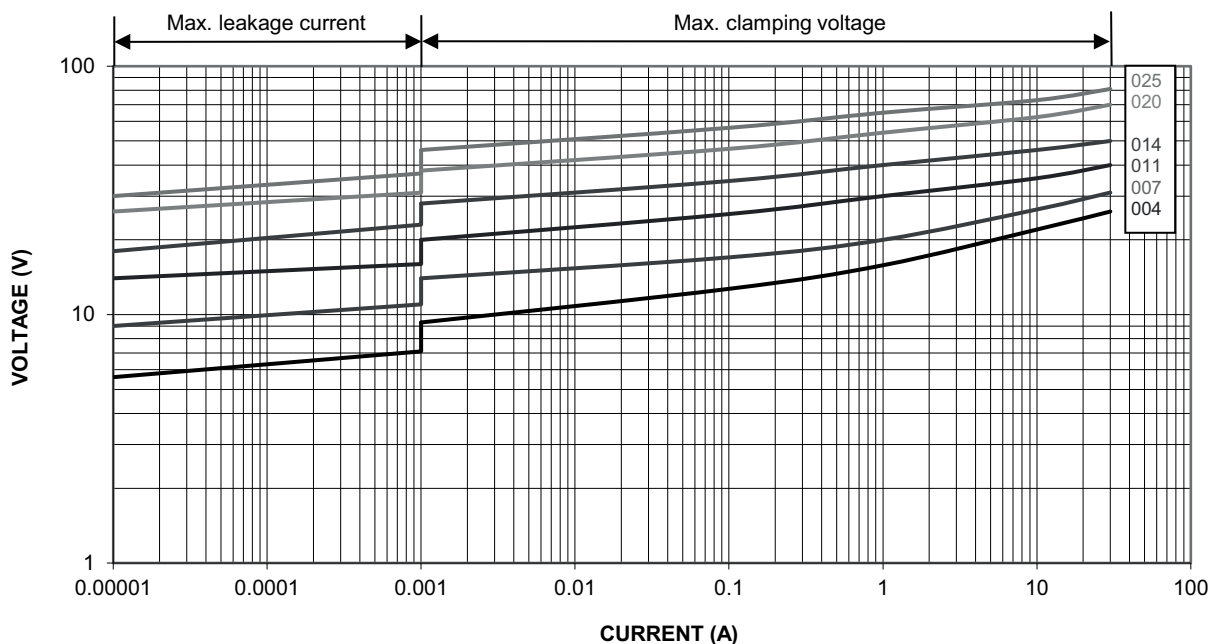
- Sinusoidal voltage assumed as normal operating condition.
If a non-sinusoidal voltage is present, the crest voltage x 0.707 should be used for type selection.
- Breakdown voltage at a current of 1 mA, measured according to 4.5 of IEC 61051-1.
- Parts are not recommended for automotive applications.

DIMENSIONS in millimeters


L_1	W	T	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	B	C
1.0	1.0	3.0

V/I CHARACTERISTICS




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