

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	MLV0805E32503T
Manufacturer:	Vishay Beyschlag/Draloric/BC Components
Package:	0805 (2012 Metric)
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/vishay-beyschlag-draloric-bc-components/mlv0805e32503t.html>



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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 0805 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 0805 (2012M) 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

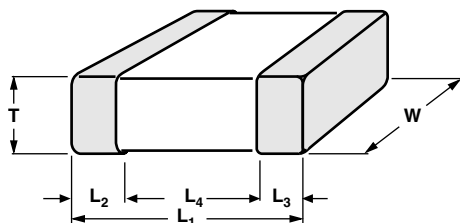
PARAMETER	VALUE	UNIT
Maximum continuous voltage		
DC	5.6 to 38.0	V
AC	4.0 to 30.0	V
Maximum clamping voltage at 1 A	15.5 to 77	V
Capacitance range (at 1 MHz)	80 to 860	pF
Maximum energy (10/1000 μ s)	0.1 to 0.3	J
Maximum peak current	30 to 100	A
Operating temperature range	-55 to 125	$^{\circ}$ C
Weight	$\pm$ 0.011	g

ELECTRICAL DATA AND ORDERING INFORMATION

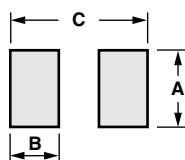
WORKING VOLTAGE		BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE	MAXIMUM PEAK CURRENT	MAXIMUM ENERGY	TYPICAL CAPACITANCE	PART NUMBER
V_{RMS}	V_{DC}	V_b	V_c	I_p	E_M	C	SAP
V	V	V	V	A	J	pF	MLV0805E3
		1 mA	1 A, 8/20 μ s	8/20 μ s	10/1000 μ s	1 MHz	
4.0	5.6	7.1 to 9.3	15.5	40	0.1	860	0403T
7.0	9.0	11.0 to 14.0	20.0	40	0.1	585	0703T
11.0	14.0	16.5 to 20.3	30.0	40	0.1	280	1103T
13.0	18.0	23.0 to 28.0	42.0	100	0.3	550	1305T
25.0	30.0	37.0 to 46.0	65.0	30	0.1	80	2503T
30.0	38.0	42.3 to 51.7	77.0	80	0.3	220	3005T

Notes

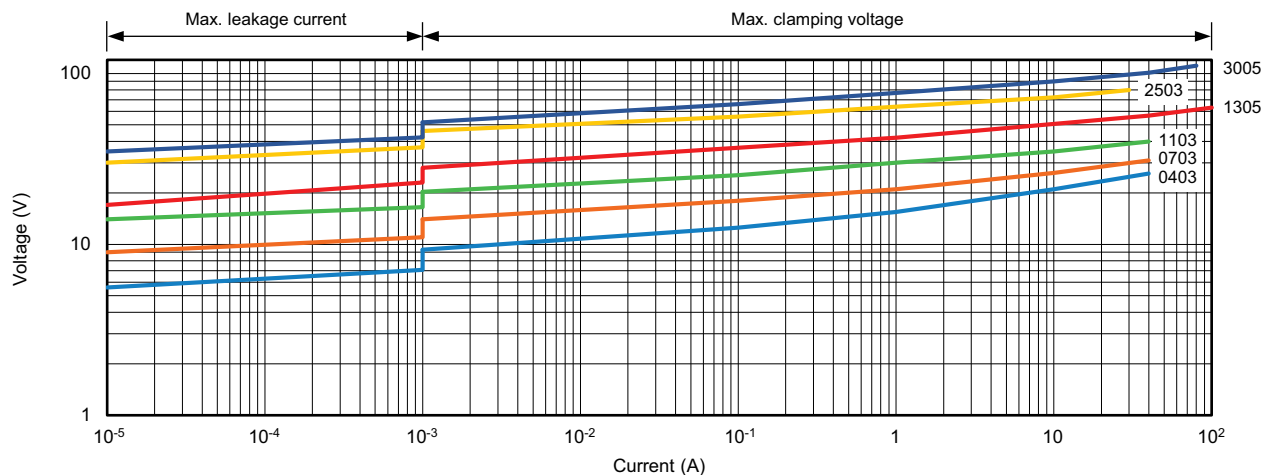
- Sinusoidal voltage assumed as normal operating condition.
If a non-sinusoidal voltage is present, the crest voltage x 0.707 should be used for type selection
- Breakdown voltage at a current of 1 mA, measured according to 4.5 of IEC 61051-1
- Parts are not recommended for automotive applications

DIMENSIONS in millimeters


L_1	W	T	L_2 and L_3
2.0 ± 0.2	1.25 ± 0.2	1.1 max.	0.4 ± 0.3

RECOMMENDED FOOTPRINT in millimeters


A	B	C
1.4	1.2	3.4

V/I CHARACTERISTICS




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