

ANTREX Electronics

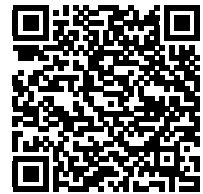
Electronic Components Sourcing Information

Product Reference Information

Part Number:	MLV0805E33005T
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/mlv0805e33005t.html>



Scan for product page

Request a Quote:

[Submit RFQ for this part](#)

Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

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

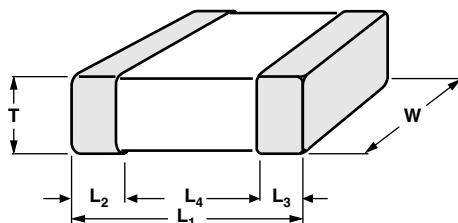
PARAMETER	VALUE	UNIT
Maximum continuous voltage		
DC	5.6 to 38.0	V
AC	4.0 to 30.0	V
Maximum clamping voltage at 1 A	15.5 to 77	V
Capacitance range (at 1 MHz)	80 to 860	pF
Maximum energy (10/1000 μ s)	0.1 to 0.3	J
Maximum peak current	30 to 100	A
Operating temperature range	-55 to 125	°C
Weight	± 0.011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

ELECTRICAL DATA AND ORDERING INFORMATION

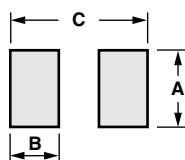
WORKING VOLTAGE		BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE	MAXIMUM PEAK CURRENT	MAXIMUM ENERGY	TYPICAL CAPACITANCE	PART NUMBER
V_{RMS}	V_{DC}	V_b	V_c	I_p	E_M	C	SAP
V	V	V	V	A	J	pF	MLV0805E3
		1 mA	1 A, 8/20 μ s	8/20 μ s	10/1000 μ s	1 MHz	
4.0	5.6	7.1 to 9.3	15.5	40	0.1	860	0403T
7.0	9.0	11.0 to 14.0	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

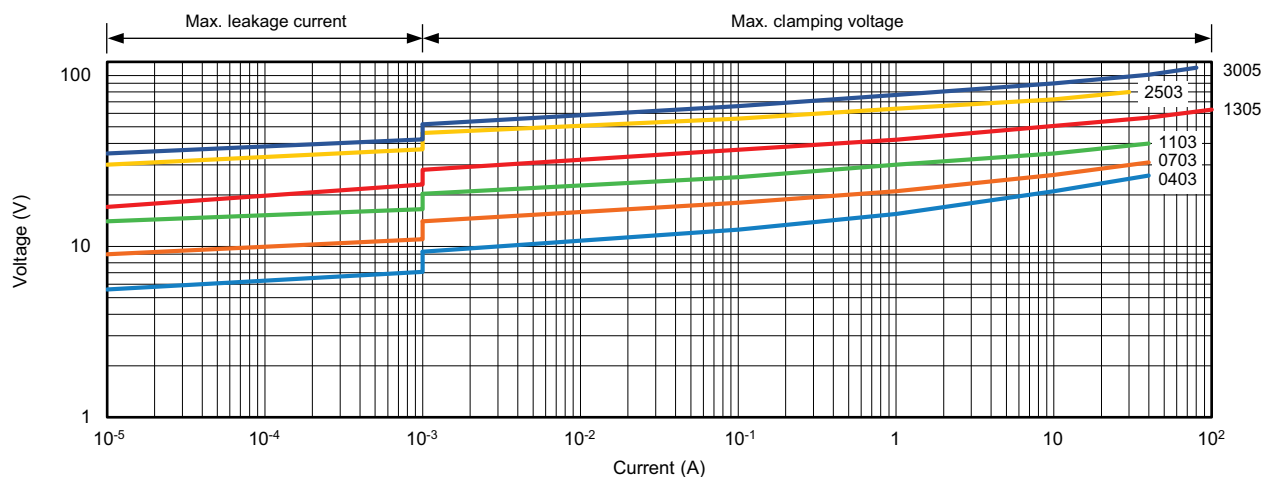
- Sinusoidal voltage assumed as normal operating condition.
If a non-sinusoidal voltage is present, the crest voltage x 0.707 should be used for type selection
- Breakdown voltage at a current of 1 mA, measured according to 4.5 of IEC 61051-1
- Parts are not recommended for automotive applications

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




Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.