Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

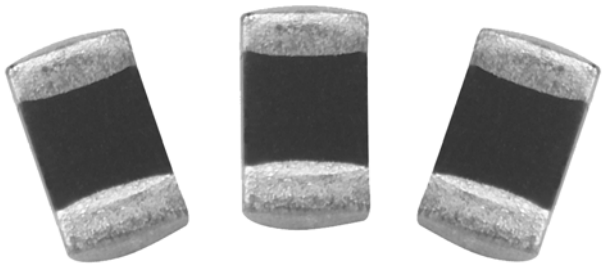
With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Surface Mount Multilayer Varistors



FEATURES

- Surface mount multilayer surge suppressor
- Inherent bidirectional clamping
- Low capacitance types available
- Excellent energy/volume ratio
- Suitable for wave or reflow soldering
- Compliance to IEC 1000-4-2
- Old part number was 2322 574 1....
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

Size 0805 (2012M) multilayer chip varistor with AgPd terminations.

APPLICATIONS

- Data lines and I/O port protection
- Protection against EMI and ESD transients
- On-board protection of ICs and transistors
- Modem protection
- LCD protection

PACKING

Available in 8 mm paper tape on reel packaging and in bulk on request.

QUICK REFERENCE DATA

PARAMETER	VALUE	UNIT
Maximum continuous voltage:		
DC	3.3 to 31	V
AC	2.5 to 25	V
Maximum clamping voltage at 1 A	12 to 65	V
Capacitance range	60 to 1300	pF
Maximum non-repetitive surge energy (10×1000 μs)	0.1	J
Maximum peak current (8×20 μs)	30	A
Response time (typical)	0.5	ns
Operating temperature range	−55 to 125	°C
Storage temperature range	−25 to 45	°C
Maximum continuous dissipation	5	mW

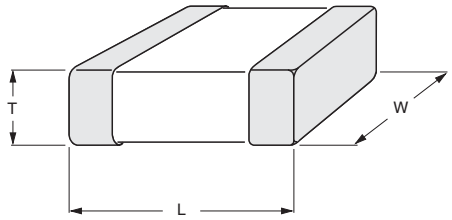
ELECTRICAL DATA AND ORDERING INFORMATION

MAXIMUM OPERATING VOLTAGE		VOLTAGE[2] at 1 mA		MAXIMUM CLAMPING VOLTAGE at 1 A (V)	CAP. at 1 kHz (pF)	TOL. (%)	CATALOG NUMBERS 2381 574.....
RMS[1] (V)	DC (V)	MIN. (V)	MAX. (V)				
2.5	3.3	4.1	6.0	12	1300	typ.	12583
4.0	5.5	6.4	9.6	21	470	typ.	10403
6.0	8.0	8.8	13.2	27	300	typ.	10603
8.0	11.0	12.7	17.2	33	200	typ.	10803
10.0	14.0	15.3	21.0	35	110	typ.	11003
14.0	18.0	19.8	25.7	40	100	typ.	11403
17.0	22.0	24.3	29.7	46	90	typ.	11703
20.0	26.0	29.7	38.6	56	70	typ.	12003
25.0	31.0	35.1	45.6	65	60	typ.	12503

Notes

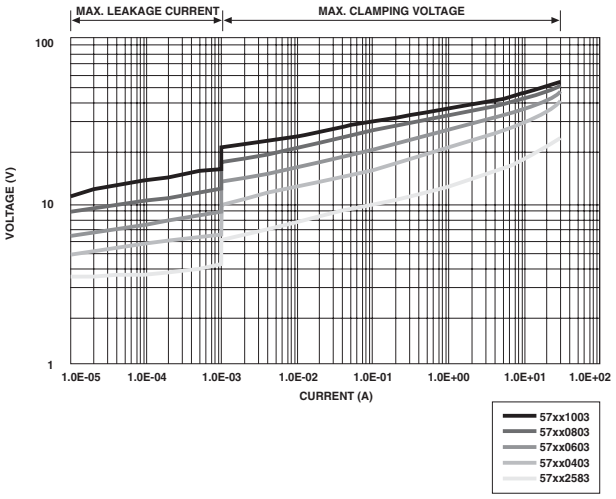
1. The sinusoidal voltage is assumed as the normal operating condition. If a non-sinusoidal voltage is present, type selection should be based on multiplying the peak voltage by a factor of 0.707.
2. The voltage measured at 1 mA meets the requirements of “paragraph 4.3 of CECC specification 42000”.

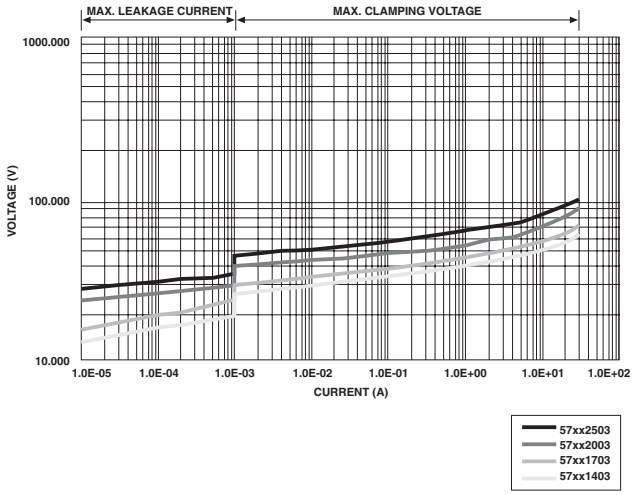
DIMENSIONS in millimeters



L	W	T
2.0 ±0.2	1.25 ±0.15	0.8 ± 0.15

V/I CHARACTERISTIC





TESTS AND REQUIREMENTS

TEST / CONDITIONS OF TEST	D OR ND*	PROCEDURE	PERFORMANCE
Sub-group A1	ND		
Visual examination *"IEC 4.3.1"*			no visible damage
Sub-group A2	ND		
Voltage (CECC 4.3); Clamping voltage (CECC B.2.7)		at 1 mA	as specified
Sub-group A3	ND		
Dimensions (gauging) *"IEC 4.3.3"*			see 4.3.3
Sub-group B1	D		
Solderability: Test Td of *"IEC 60068-2-20"*, solder bath method		235 °C ±5 °C for 5 ±0.5 s; at 1 mA	no visible damage; as in 9.2.1; as specified

* D = Destructive, N = Non-destructive