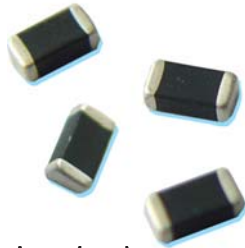
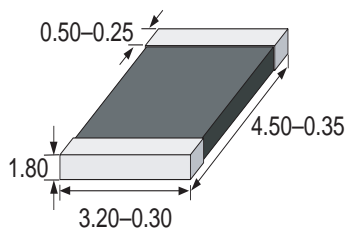


**TVS 1812 SMD**

This product is not recommended for new designs. Please refer to Littelfuse series MLA.

**Dimensions (mm)**

## Multilayer Ceramic Transient Voltage Suppressor

### Standard Capacity

**Features**

Thin layer, high precise techniques  
Lead free  
Bi-directional clamping  
Standard and low capacity  
Available with Nickel/Tin end termination

**Applications**

Circuit board and ESD, EFT

Protection of:

- I/O ports
- Keyboards
- LCD's
- Sensors

**WebLinks**

**Further infos see:**

[www.wickmanngroup.com](http://www.wickmanngroup.com)

**Further technical infos see technical varistor file:**

[www.wickmanngroup.com/download/techvaristor.pdf](http://www.wickmanngroup.com/download/techvaristor.pdf)

**Specifications****Packaging**

Tape and Reel  
T 7 inch reel (1.000 pcs.)

**Material**

Body: Ceramic (ZnO)  
Terminals: Ni/Sn plated (code "P")  
Ag/Pt/Pd non plated (code "N" on request)

**Operating Temperature**

-55 to +125°C

**Solderability**

acc. to IEC 60068-2-58  
235°C, 2s

**Soldering Heat Resistance**

260°C, 10 sec. (IEC 60068-2-58)  
280°C, 5 sec. (IEC 60068-2-58)

**Response Time**

<0.5ns

**Temperature coefficient ( $\alpha_V$ ) of clamping voltage ( $V_c$ ) @ specified test current**

<0.01%/°C

**Power dissipation**

0.3W max.

**Standards**

IEC 61000-4-2  
MIL-STD-883C

Maximum Ratings (125°C)						Specifications (25°C)				
Type	max. cont. working voltage		max. non-repetitive surge current (8/20 $\mu$ s)	max. non-repetitive surge energy (10/1000 $\mu$ s)	max. clamping voltage at spec. current (8/20 $\mu$ s)	nominal voltage at 1mA (DC) test current		typ. capacitance		typ. inductance
	$V_{M(DC)}$ (V)	$V_{M(AC)}$ (V)	$I_{TM}$ (A)	$W_{TM}$ (J)	$V_c$ (V@A)	$V_{N(DC)min.}$ (V)	$V_{N(DC)max.}$ (V)	1KHz $C_{typ.}$ (pF)	1MHz $C_{typ.}$ (pF)	$L_{typ.}$ (nH)
WT1812ML050A	5,5	4,0	500	0,8	15,5 @ 10	7,1	9,8	12900	11200	2,5
WT1812ML090A	9,0	6,0	500	1,0	25,0 @ 10	10,0	14,5	7100	6070	2,5
WT1812ML120A	12,0	9,0	800	1,8	30,0 @ 10	14,0	18,5	6500	5260	2,5
WT1812ML140A	14,0	11,0	800	2,0	33,0 @ 10	16,0	21,0	4410	3940	2,5
WT1812ML180A	18,0	14,0	800	2,3	38,0 @ 10	22,0	28,0	4000	3500	2,5
WT1812ML220A	22,0	17,0	800	2,5	44,0 @ 10	24,3	30,0	3670	2990	2,5
WT1812ML260A	26,0	20,0	800	3,0	54,0 @ 10	29,5	38,0	2670	2320	2,5
WT1812ML300A	30,0	25,0	800	3,6	65,0 @ 10	35,0	43,0	2320	1890	2,5
WT1812ML380A	38,0	30,0	800	4,2	77,0 @ 10	42,3	51,7	1960	1680	2,5
WT1812ML450A	45,0	35,0	800	4,5	90,0 @ 10	50,0	61,0	1370	1150	2,5
WT1812ML560A	56,0	40,0	500	4,8	110,0 @ 10	61,2	74,0	950	730	2,5
WT1812ML680A	68,0	50,0	400	4,5	135,0 @ 10	74,0	90,0	590	500	2,5
WT1812ML850A	85,0	60,0	400	5,8	165,0 @ 10	91,0	115,0	530	450	2,5

**Order Information**

Qty.	Order-Number	Type	Terminal Code	Packaging
		WT1812ML140	A	P
				T

Specifications are subject to change without notice

**WebSite**

050915 [www.wickmanngroup.com](http://www.wickmanngroup.com) E-mail: [sales@wickmann.com](mailto:sales@wickmann.com)

Europe Tel: +49 2302 662-107

Americas Tel: +1 404 699-7820

E-mail: [service@wickmannusa.com](mailto:service@wickmannusa.com)

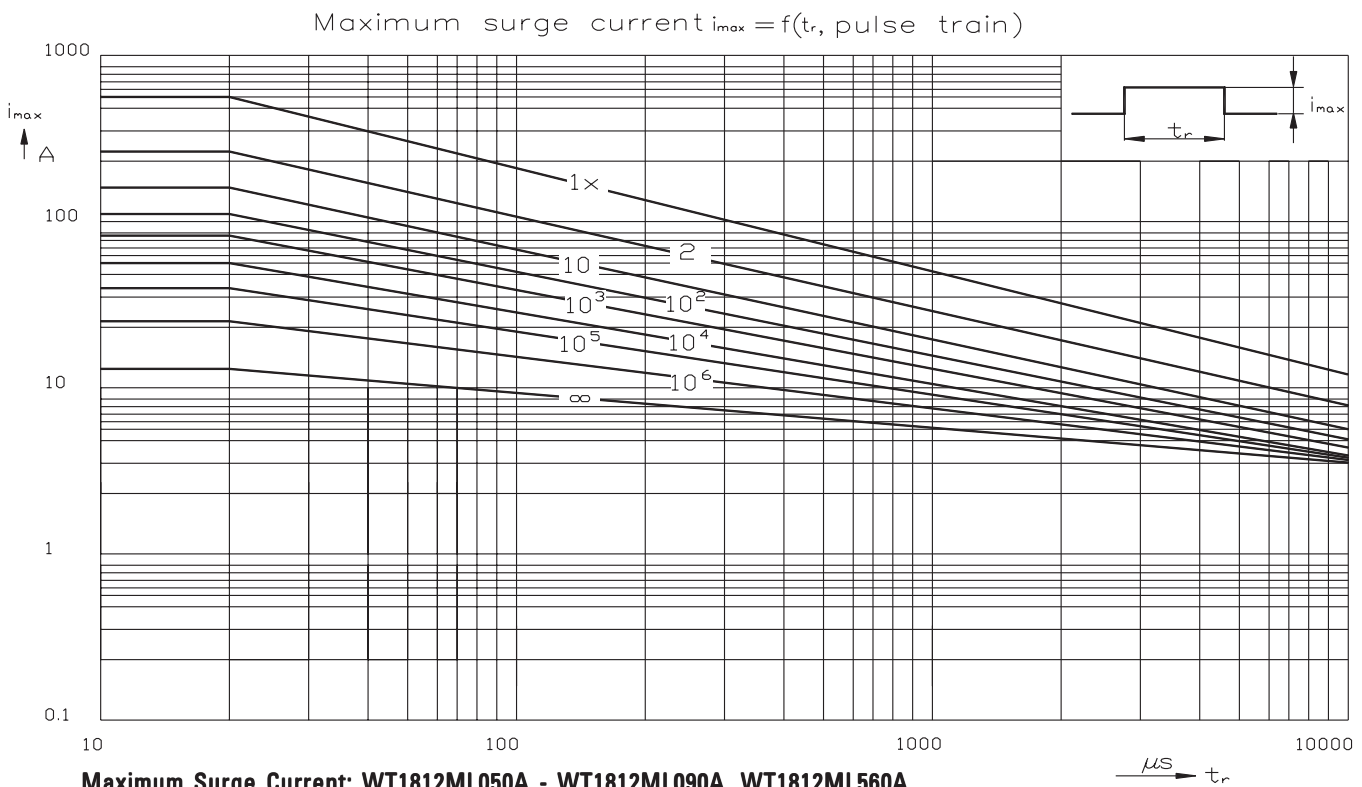
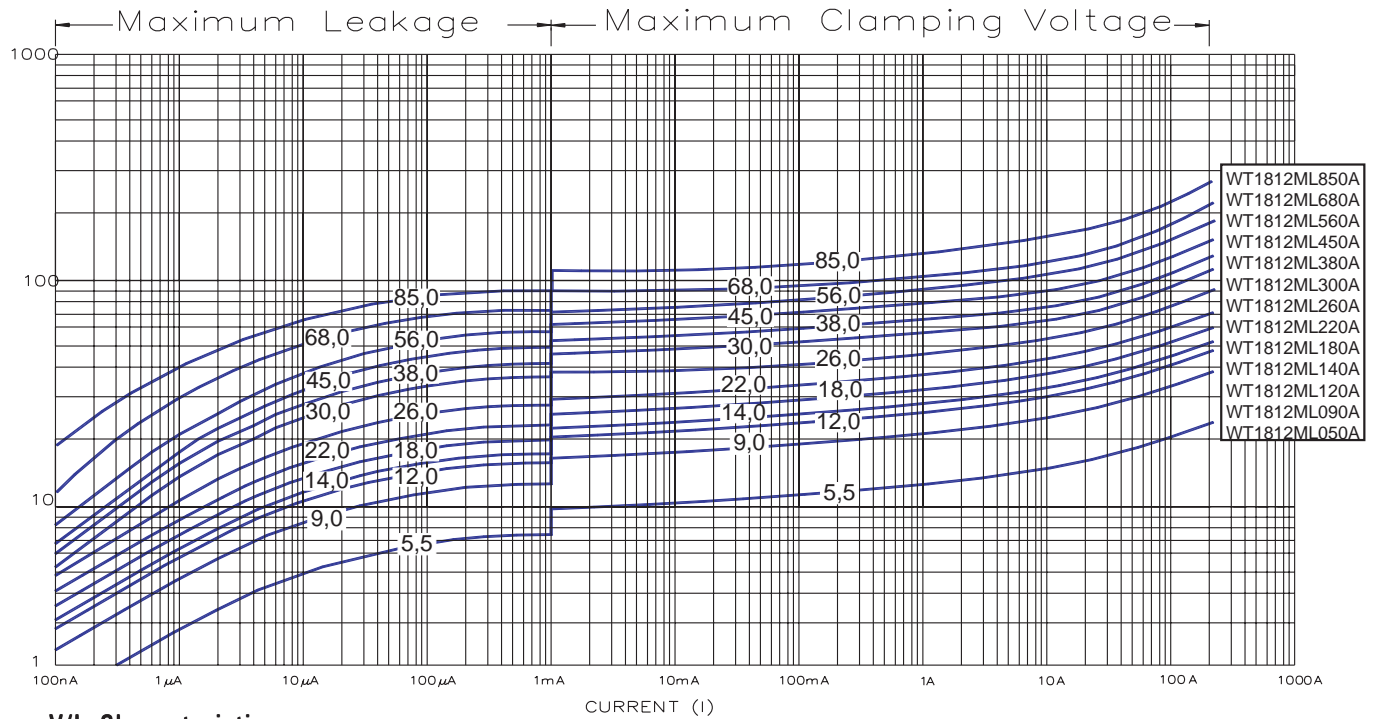
Asia Tel: +852 26 14-1108

E-mail: [sales@wickmann.com.hk](mailto:sales@wickmann.com.hk)

China Tel: +86 21 6432 5146

E-mail: [sales@wickmann.com](mailto:sales@wickmann.com)

## TVS 1812 SMD



## TVS 1812 SMD

