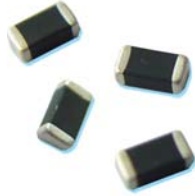
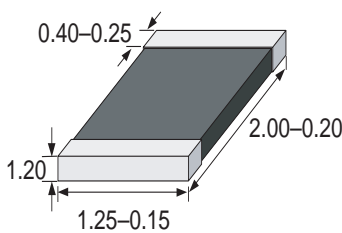


## TVS 0805 SMD

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



### Dimensions (mm)



## Multilayer Ceramic Transient Voltage Suppressor Low 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 info see:

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

Further technical info 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 (3.000 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 (αV) of clamping voltage (Vc) @ specified test current

<0.01%/°C

### Power dissipation

0.1W max.

### Standards

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

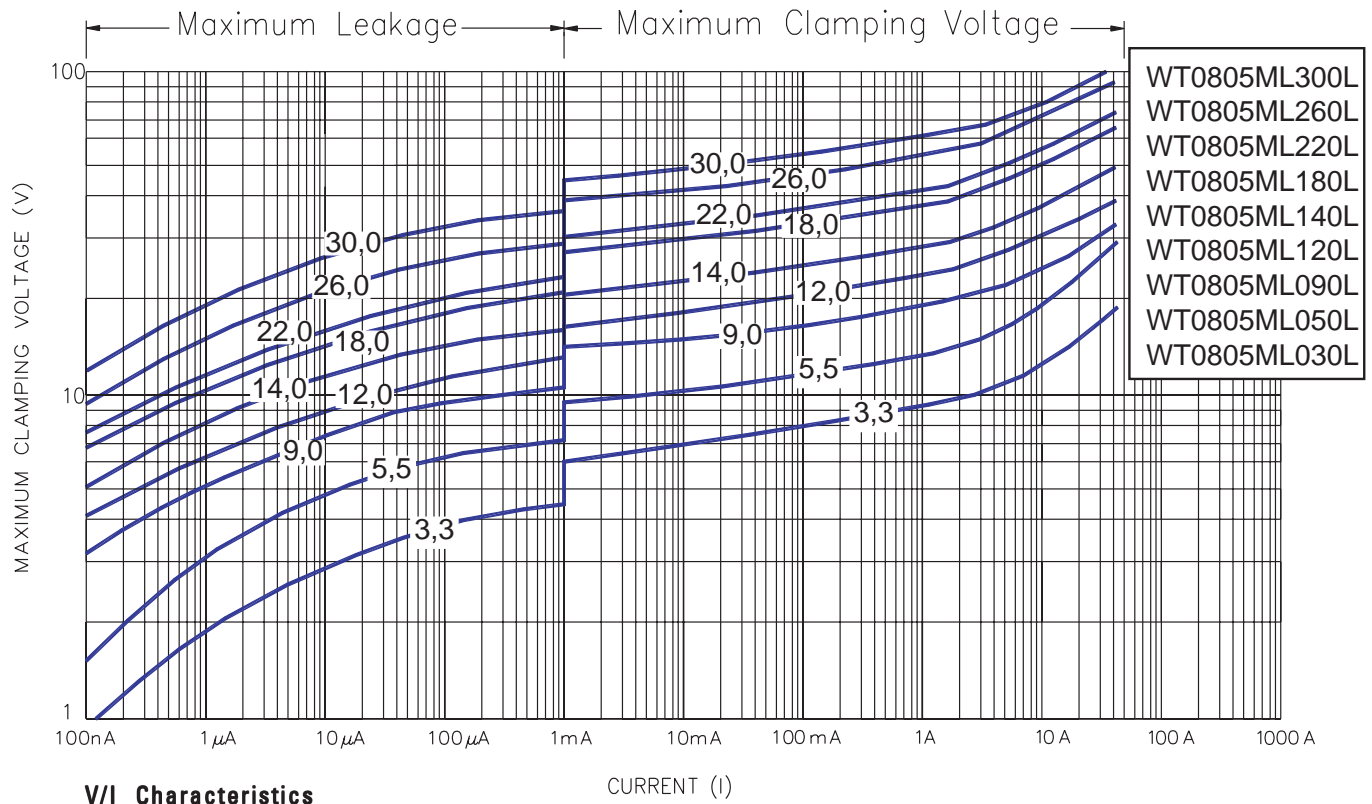
Type	Maximum Ratings (125°C)					Specifications (25°C)				
	max. cont. working voltage		max. non-repetitive surge current (8/20 μs)	max. non-repetitive surge energy (10/1000 μs)	max. clamping voltage at spec. current (8/20 μs)	nominal voltage at 1mA (DC) test current		typ. capacitance		typ. inductance
	$V_{M(DC)}$ (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)
WT0805ML030L	3,3	2,5	40	0,10	10,0 @ 2	3,8	7,0	2.080	1.900	1,5
WT0805ML050L	5,5	4,0	40	0,10	15,5 @ 2	7,1	9,8	790	720	1,5
WT0805ML090L	9,0	6,0	40	0,10	20,0 @ 2	10,0	14,5	650	550	1,5
WT0805ML120L	12,0	9,0	40	0,10	25,0 @ 2	14,0	18,5	560	480	1,5
WT0805ML140L	14,0	11,0	40	0,10	30,0 @ 2	16,0	21,0	445	380	1,5
WT0805ML180L	18,0	14,0	40	0,10	40,0 @ 2	22,0	28,0	330	290	1,5
WT0805ML220L	22,0	17,0	40	0,10	44,0 @ 2	24,3	30,0	320	280	1,5
WT0805ML260L	26,0	20,0	40	0,10	58,0 @ 2	29,5	38,0	330	285	1,5
WT0805ML300L	30,0	25,0	40	0,10	65,0 @ 2	35,0	43,0	220	190	1,5

### Order Information

Qty.	Order-Number	Type	Terminal Code	Packaging
		WT0805ML140	L	T

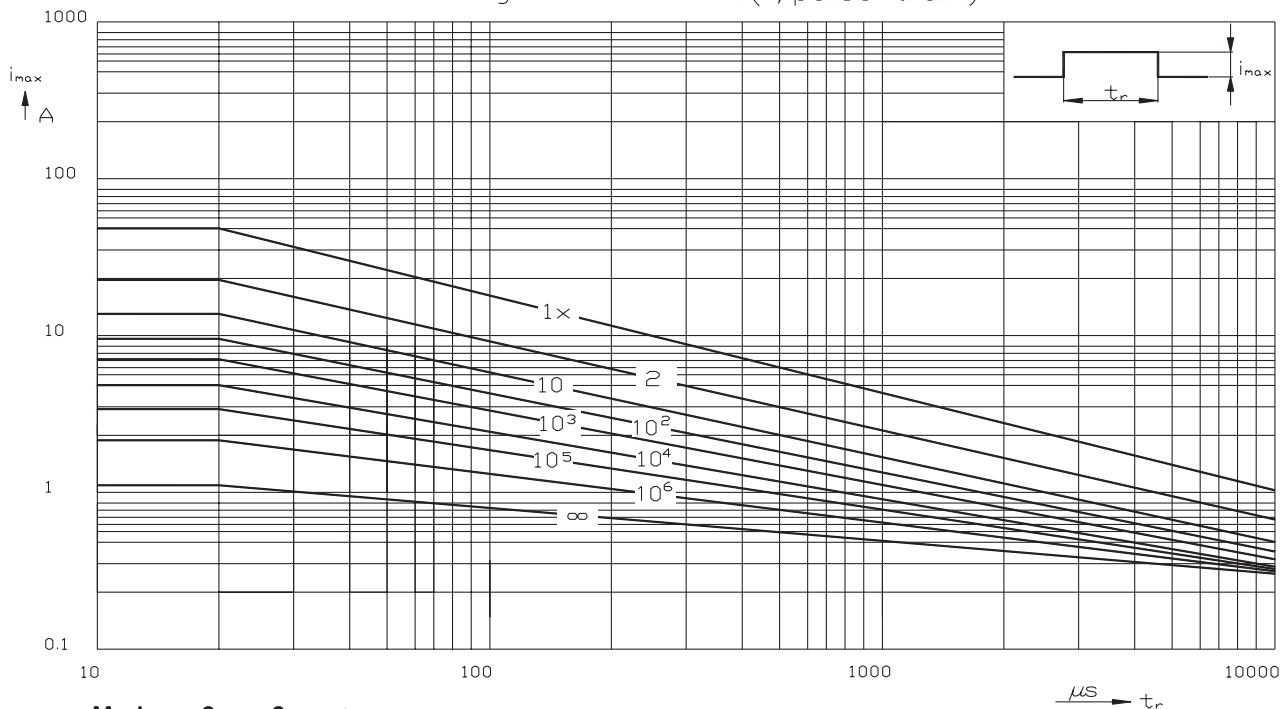
Specifications are subject to change without notice

## TVS 0805 SMD



V/I Characteristics

Maximum surge current  $i_{max} = f(t_r, \text{pulse train})$



Maximum Surge Current