

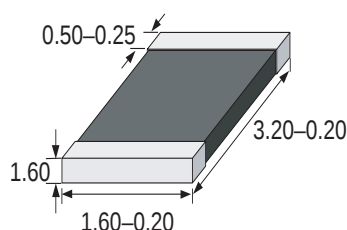


## TVS 1206 SMD

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

<0.01%/°C

### Power dissipation

0.1W 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) |                                                  |                                                    |                                                       | $V_{N(DC)min.}$ (V)                      | $V_{N(DC)max.}$ (V) | 1KHz<br>$C_{typ.}$ (pF) | 1MHz<br>$C_{typ.}$ (pF) |                 |
| WT1206ML030L            | 3,3                        | 2,5             | 40                                               | 0,10                                               | 10,0 @ 2                                              | 3,8                                      | 7,0                 | 4330                    | 3600                    | 1,8             |
| WT1206ML050L            | 5,5                        | 4,0             | 40                                               | 0,10                                               | 15,5 @ 2                                              | 7,1                                      | 9,8                 | 3450                    | 2900                    | 1,8             |
| WT1206ML140L            | 14,0                       | 11,0            | 40                                               | 0,10                                               | 30,0 @ 2                                              | 16,0                                     | 21,0                | 890                     | 750                     | 1,8             |
| WT1206ML180L            | 18,0                       | 14,0            | 40                                               | 0,10                                               | 40,0 @ 2                                              | 22,0                                     | 28,0                | 760                     | 640                     | 1,8             |
| WT1206ML450L            | 45,0                       | 35,0            | 40                                               | 0,10                                               | 100,0 @ 10                                            | 50,0                                     | 61,0                | 225                     | 190                     | 1,8             |

### Order Information

| Qty. | Order-Number | Type        | Terminal Code | Packaging |
|------|--------------|-------------|---------------|-----------|
|      |              | WT1206ML140 | L             | 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)

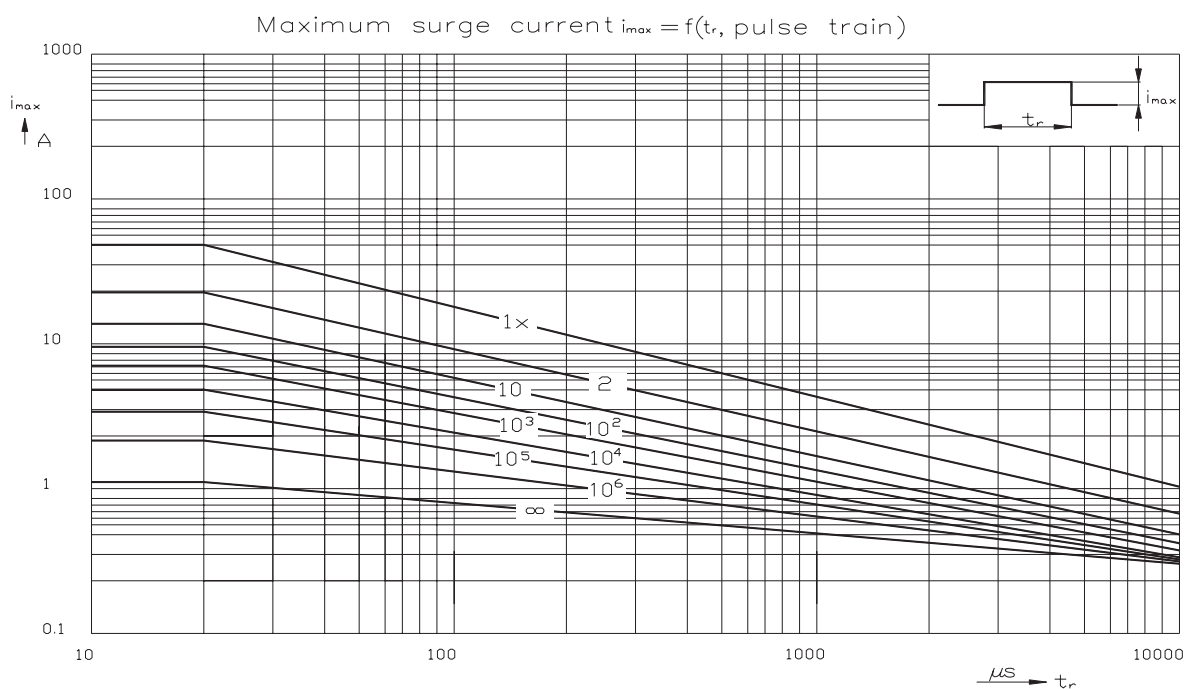
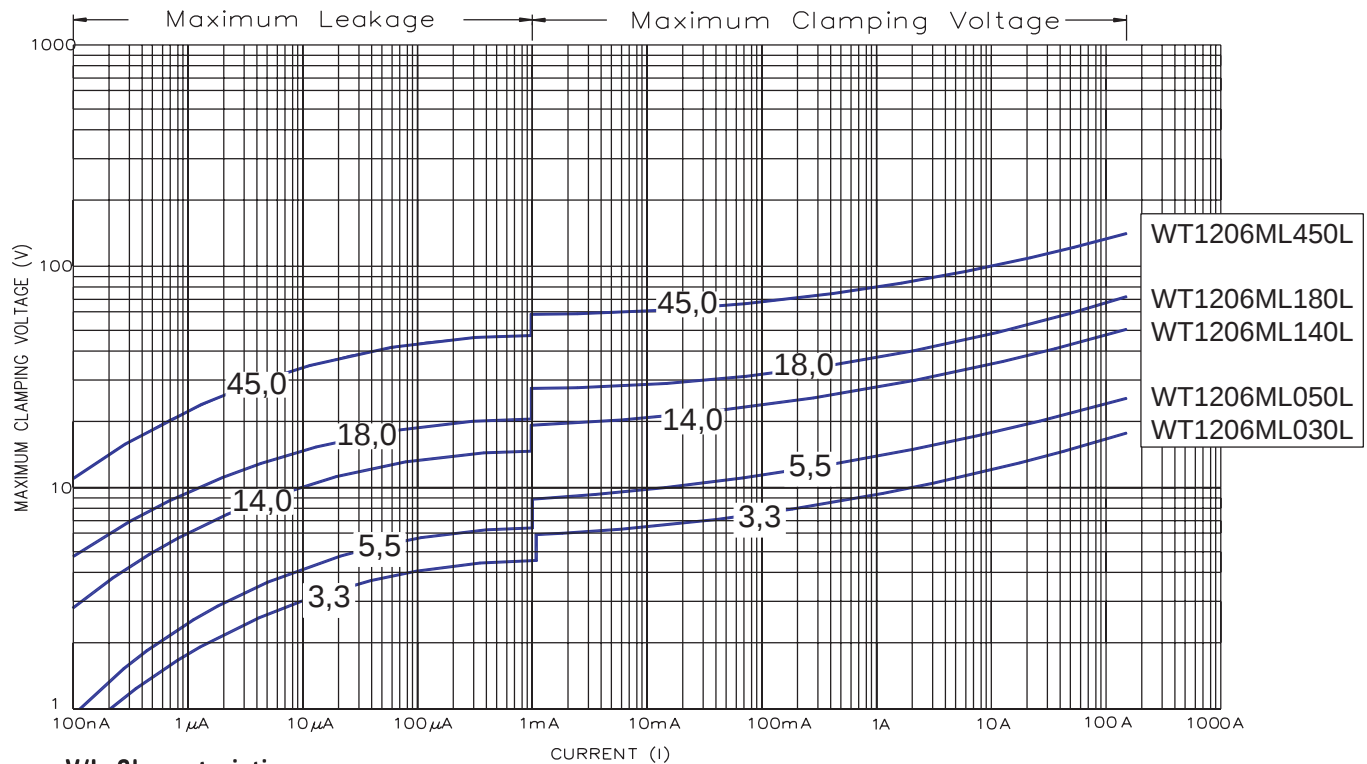
Asia Tel: +852 26 14-1108

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 1206 SMD



Maximum Surge Current: WT1206ML030L - WT1206ML180L

## TVS 1206 SMD

