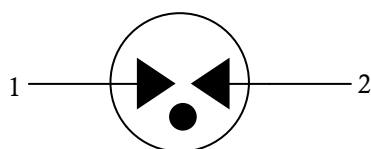


Features	Applications
<ul style="list-style-type: none"> <li>Extremely small size</li> <li>Extremely fast response time</li> <li>Stable performance over life</li> <li>Very low capacitance</li> <li>High insulation resistance</li> <li>RoHS-compatible</li> </ul>	<ul style="list-style-type: none"> <li>Line Cards</li> <li>PCI Cards</li> <li>Modem</li> <li>Splitter</li> </ul>

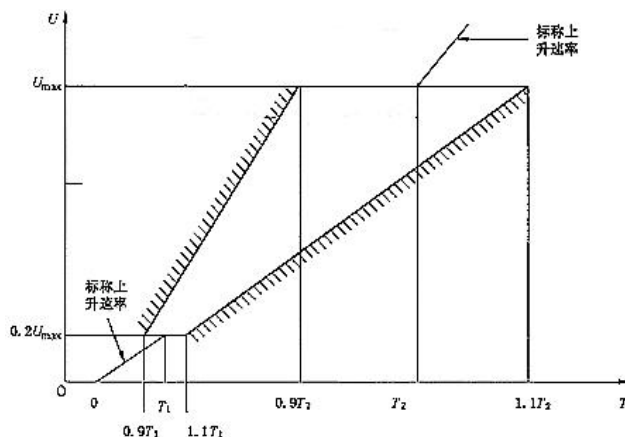
### Schematic Symbol



### Electrical specifications

DC breakdown voltage <sup>1)2)</sup>	90	V
Tolerance	±30	%
Impulse breakdown voltage		
at 1kv/μs      –For 99% measure values	≤600	V
Service life		
10 operations      10/700us	4	KV
10 operations      8/20us	2	KA
Insulation resistance at DC 50V	≥1	GΩ
Capacitance at 1MHz	≤1.0	pF
Weight	~0.2	g
Storage and operations temperature	-40...+90	°C
Climatic category (IEC60068-1)	40/125/21	
Marking, Blue positive	Without	

### DC breakdown voltage



### 8/20us, Test wave

$$T_1 = 1.25T = 8\mu s \pm 20\%$$

$$T_2 = 20\mu s \pm 20\%$$

### 10/700us, Test Wave

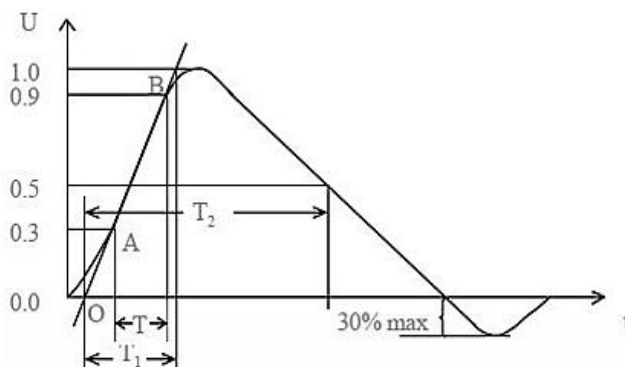
$$T_1 = 1.67T = 10\mu s \pm 20\%$$

$$T_2 = 700\mu s \pm 20\%$$

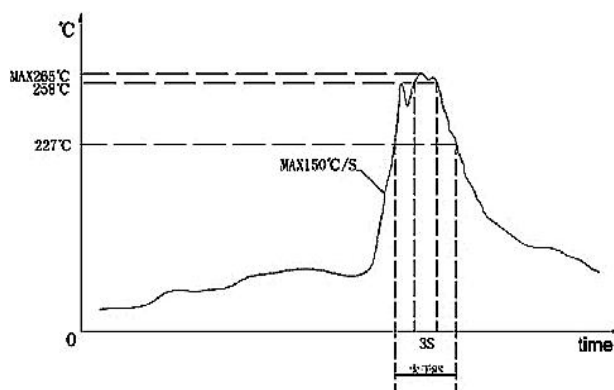
### 10/1000us, Test Wave

$$T_1 = 1.67T = 10\mu s \pm 20\%$$

$$T_2 = 1000\mu s \pm 20\%$$



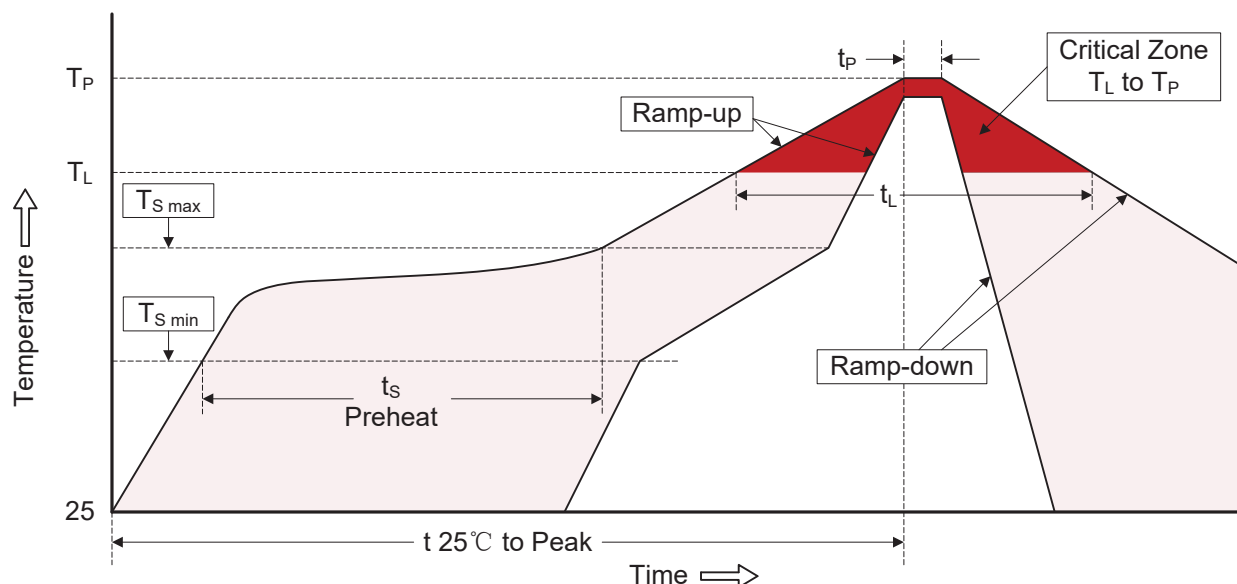
### Recommended wave soldering profile





### Recommended Soldering Conditions

#### Reflow Soldering



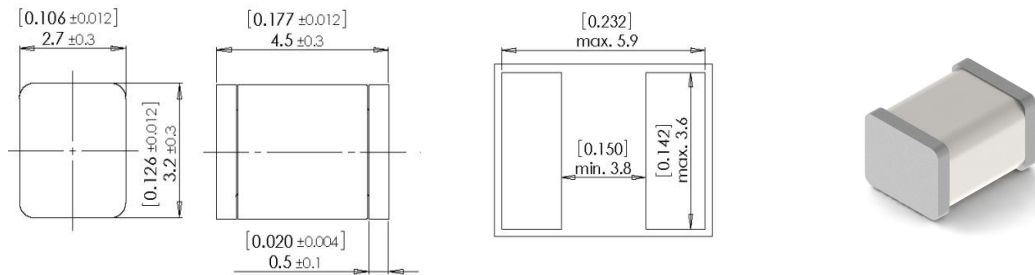
#### Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate ( $T_L$ to $T_P$ )	3°C/second max.
Preheat <ul style="list-style-type: none"><li>-Temperature Min (<math>T_{S\ min}</math>)</li><li>-Temperature Max (<math>T_{S\ max}</math>)</li><li>-Time (min to max) (<math>t_s</math>)</li></ul>	150°C 200°C 60-180 seconds
$T_{S\ max}$ to $T_L$ <ul style="list-style-type: none"><li>-Ramp-up Rate</li></ul>	3°C/second max.
Time maintained above: <ul style="list-style-type: none"><li>-Temperature (<math>T_L</math>)</li><li>-Time (<math>t_L</math>)</li></ul>	217°C 60-150 seconds
Peak Temperature ( $T_P$ )	260°C
Time within 5°C of actual Peak Temperature ( $t_P$ )	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

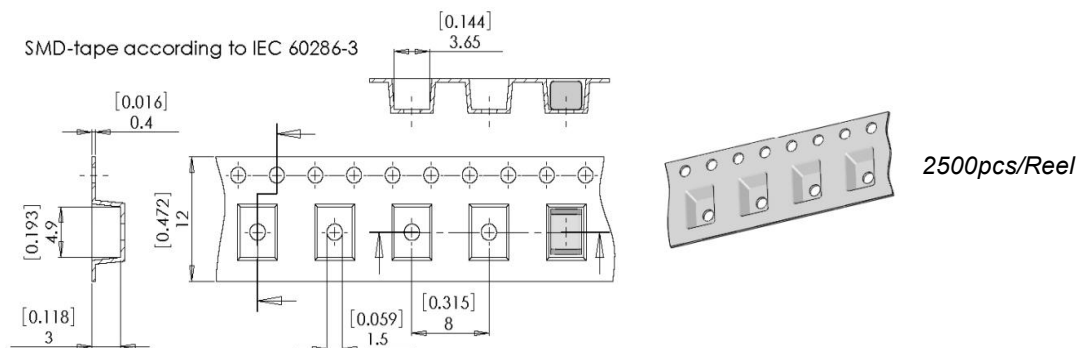


- 1) Sampling size in accordance to AQL(C=0)
- 2) In ionized mode
- 3) Tests according to ITU-T Rec. K. 12 IEC61663-2 and IEC61643-311

### Dimensions



### Packing



### Cautions and warnings

- Surge arresters must not be operated directly in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- If the contacts of the surge arrester are defective, current stress can lead to the formation of sparks and loud noises.
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.