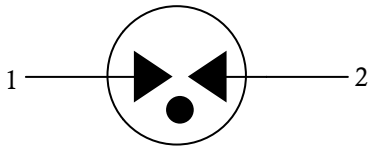
TG4532D091CX

2-Electrode Surge arrester

Features	Applications
● Extremely small size	● **Line Cards**
● Extremely fast response time	● **PCI Cards**
● Stable performance over life	● **Modem**
● Very low capacitance	● **Splitter**
● High insulation resistance	
● RoHS-compatible	

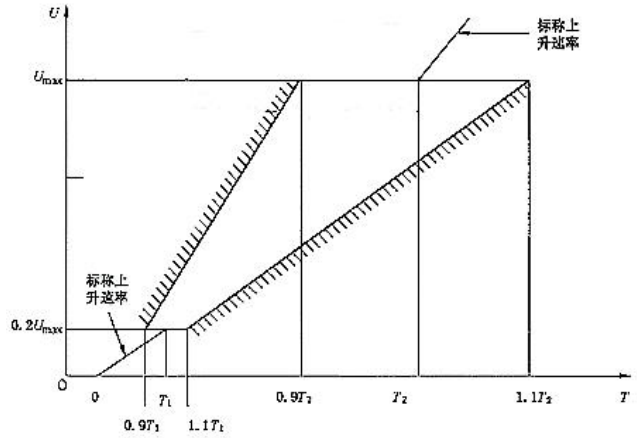
Schematic Symbol



Electrical specifications

DC breakdown voltage [1)2)]		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

T1=1.25T=8us±20%

T2=20us±20%

10/700us,Test Wave

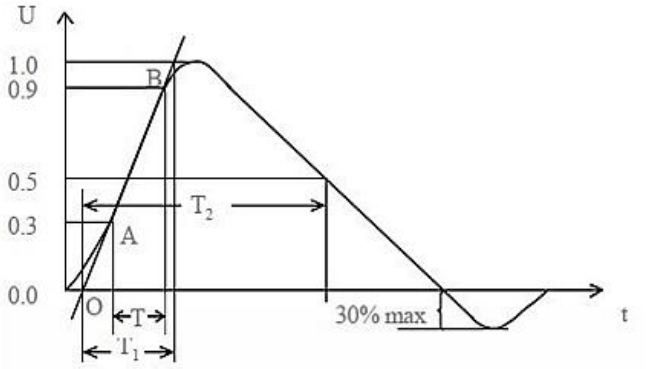
T1=1.67T=10us±20%

T2=700us±20%

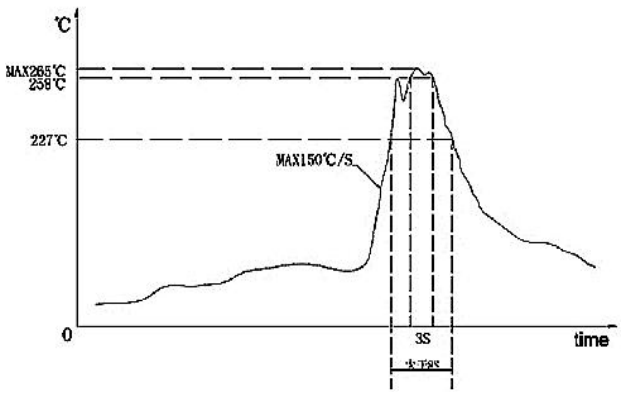
10/1000us,Test Wave

T1=1.67T=10us±20%

T2=1000us±20%

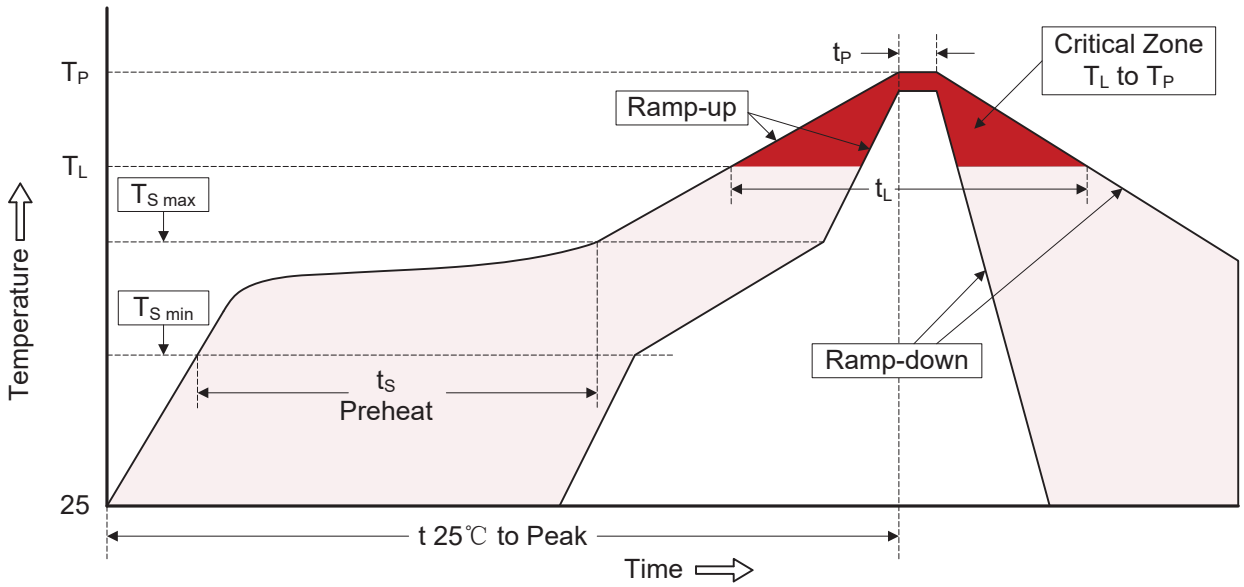


Recommended wave slodering profile



Recommended Soldering Conditions

Reflow Soldering

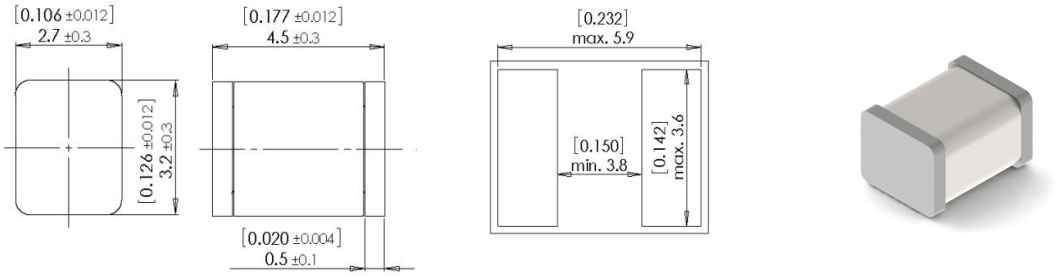


Recommended Conditions

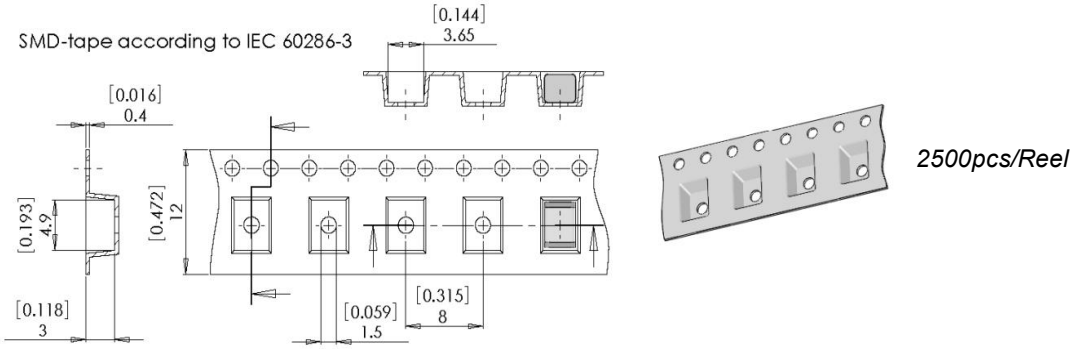
Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3℃/second max.
Preheat -Temperature Min ($T_{S\,min}$) -Temperature Max ($T_{S\,max}$) -Time (min to max) (ts)	 150℃ 200℃ 60-180 seconds
$T_{S\,max}$ to T_L -Ramp-up Rate	 3℃/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	 217℃ 60-150 seconds
Peak Temperature (T_P)	260℃
Time within 5℃ of actual Peak Temperature (t_P)	20-40 seconds
Ramp-down Rate	6℃/second max.
Time 25℃ 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



2500pcs/Reel

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.

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