



Surge arrester

2-electrode arrester

Series/Type: DG151A
Customer:
Version/Date: Issue 01/2017-05-17

2-Electrode arrester

DG151A

Features	Applications
<ul style="list-style-type: none"> ● Extremely small size ● Extremely fast response time ● Excellent SMD handling ● Stable performance over life ● Very low capacitance ● High insulation resistance ● RoHS-compatible No:RLSHE001142360003 ● UL-identification, No:E311500 	<ul style="list-style-type: none"> ● Splitter ● PCI Cards ● Morden ● Line cards

Electrical specifications

DC breakdown voltage ^{1) 2)} at 100v/s -Circuit current less than 2mA	150 ±30	V %
Impulse breakdown voltage ¹⁾ at 1kv/us -Typical values of distribution	≤ 600	V
Insulation resistance at DC 100V	≥ 1	GΩ
Capacitance at 1MHz ²⁾	≤ 1	Pf
Service life ³⁾ 10 operations 8/20us	0.5	KA
Weight	~0.05	g
Storage temperature	-40...+90	°C
Climatic category (GB/T 9043, IEC61643-1)	40/90/21	
Marking	without	

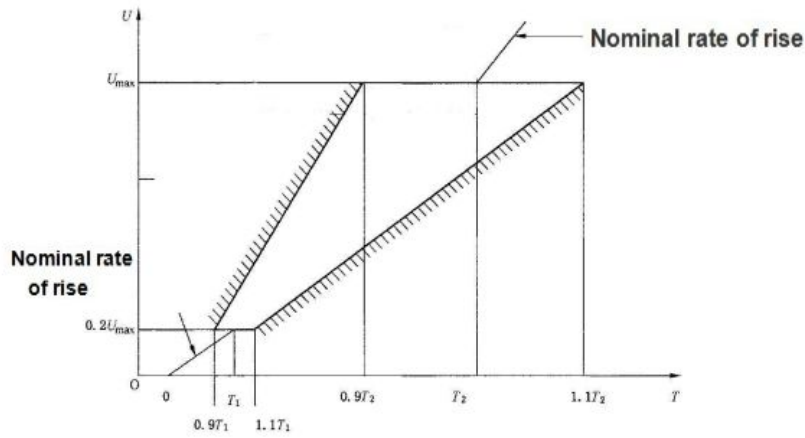


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DC breakdown voltage



8/20us, Test wave

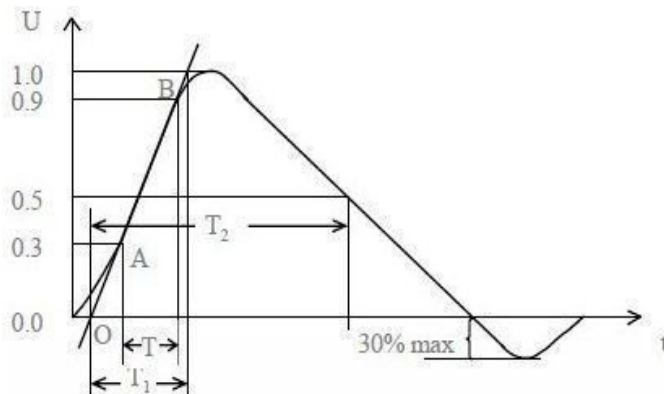
$T1=1.25T=8\mu s \pm 20\%$
 $T2=20\mu s \pm 20\%$

10/700us, Test Wave

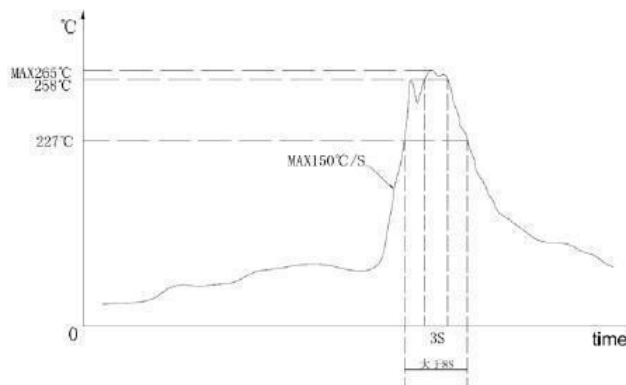
$T1=1.67T=10\mu s \pm 20\%$
 $T2=700\mu s \pm 20\%$

10/1000us, Test Wave

$T1=1.67T=10\mu s \pm 20\%$
 $T2=1000\mu s \pm 20\%$



Recommended wave soldering profile



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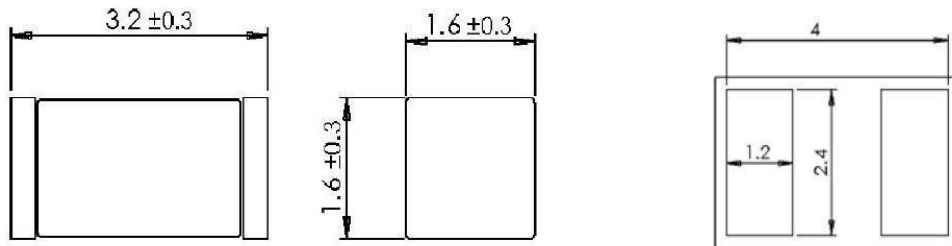
DG151A

- 1) At delivery AQL 0.65 level II ,DIN ISO 2859
- 2) In ionized mode
- 3) DC spark-over voltage $\pm 40\%$ after load

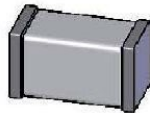
Tests according to ITU-T Rec. K. 12 and UL 497B

Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21 and DIN 57845 / VDE0845

Dimension

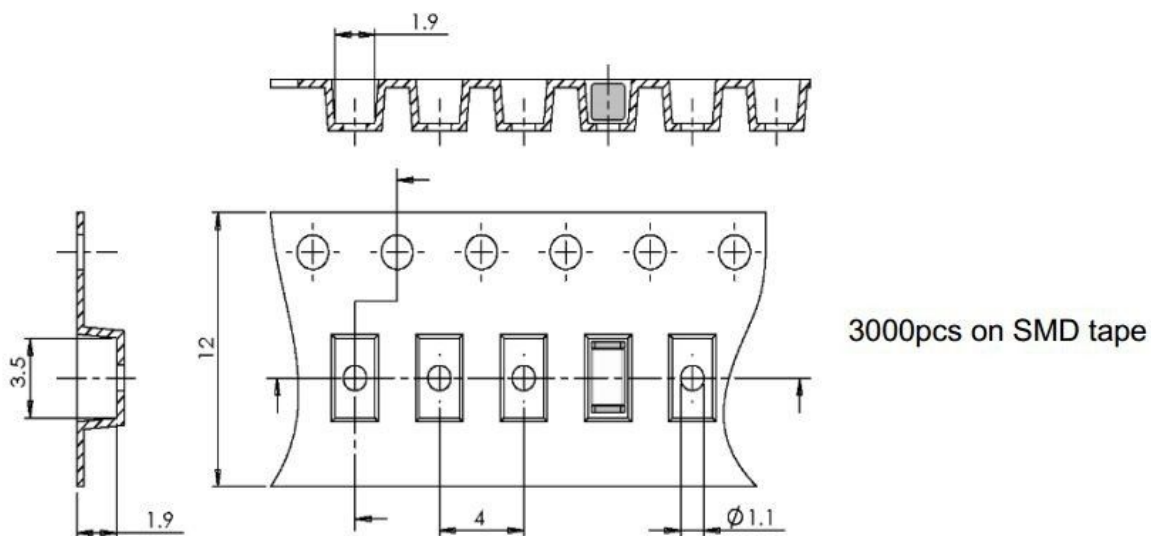


Recommended pad outline



Dimensions in mm
Tin-plated

Packing



Cautions and warnings

- Depending on the incorporation position, the surge arrester may have to be additionally secured by mechanical means.
- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Damaged surge arresters must not be re-used.

DG Elec.

Please read Cautions and warnings and important notes at the end of this document.

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