



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

### Electrical specifications

DC breakdown voltage <sup>1) 2)</sup> at 100v/s -Circuit current less than 2mA	150 ±30	V %
Impulse breakdown voltage <sup>1)</sup> at 1kv/us -Typical values of distribution	≤ 600	V
Insulation resistance at DC 100V	≥ 1	GΩ
Capacitance at 1MHz <sup>2)</sup>	≤ 1	Pf
Service life <sup>3)</sup> 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	<b>without</b>	

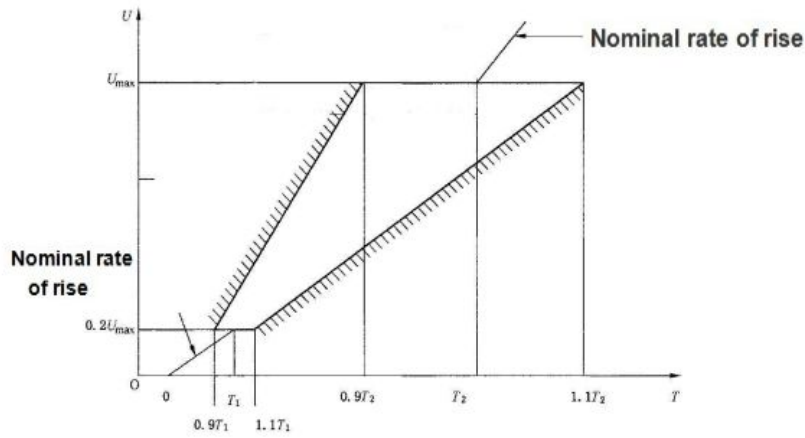


Tel: +86-510-81707290  
Fax: +86-510-81707277  
www.dong-guang.com

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DC breakdown voltage



8/20us, Test wave

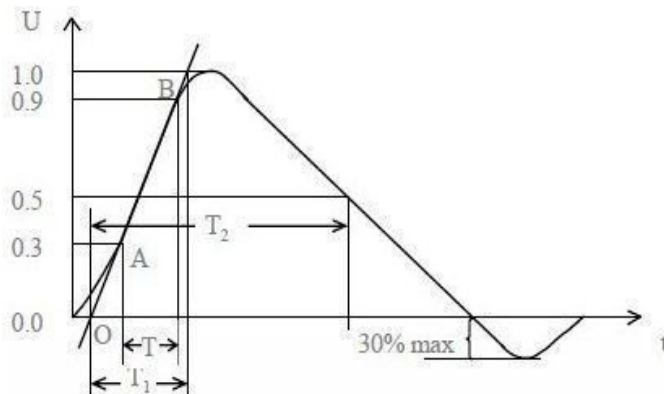
$T_1=1.25T=8\mu s \pm 20\%$   
 $T_2=20\mu s \pm 20\%$

10/700us, Test Wave

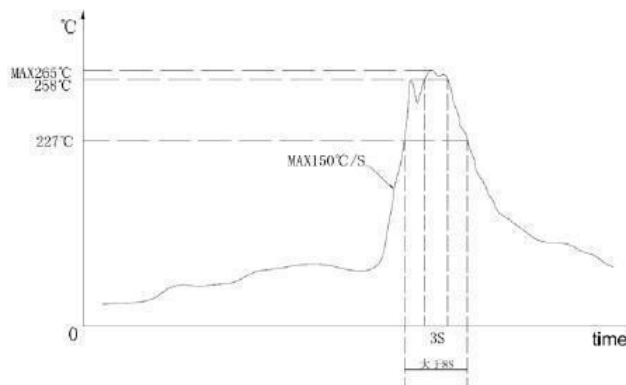
$T_1=1.67T=10\mu s \pm 20\%$   
 $T_2=700\mu s \pm 20\%$

10/1000us, Test Wave

$T_1=1.67T=10\mu s \pm 20\%$   
 $T_2=1000\mu s \pm 20\%$



Recommended wave soldering profile



## 2-Electrode arrester

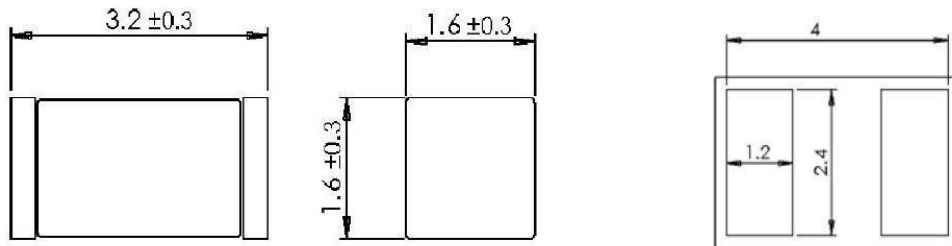
DG151A

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

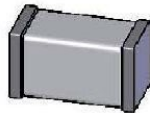
Tests according to ITU-T Rec. K. 12 and UL 497B

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

### Dimension

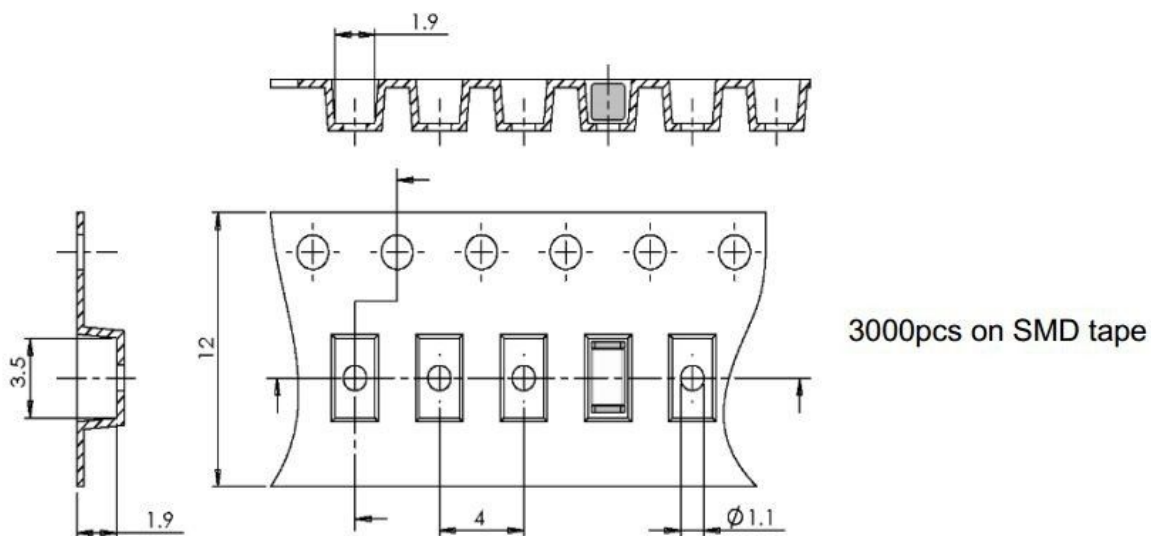


Recommended pad outline



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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