

## Gas Discharge Tube – SA151N Series

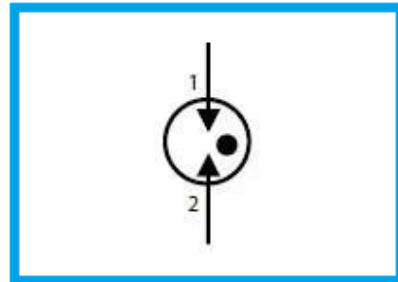
### Features

- DC Spark-over voltage: 150V
- Low Capacitance
- Micro-Gap Design
- Stable breakdown voltage
- RoHS & HF compliant
- High holdover voltage
- High insulation resistance
- Large absorbing transient current capability.



### Applications

- Communication equipment
- Test equipment
- Data lines
- CATV equipment
- Power Supplies
- Telecom SLIC protection
- Telecommunications

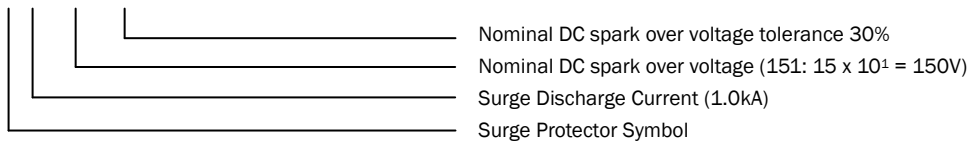


### General Characteristics Definition

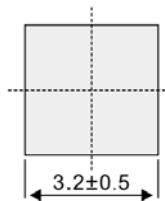
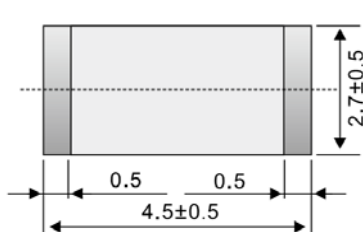
- Operating temperature: -40 ~ 85°C
- Storage temperature: -40 ~ 85°C

### Part Number Code

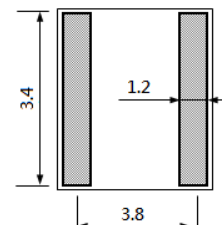
#### S A 151 N



### Physical Dimensions



#### Solder pad layout



#### Note:

1. All dimensions are in millimeters.
2. No marking on the device.

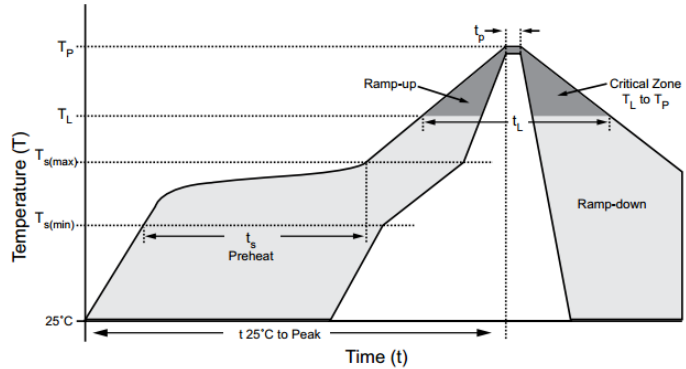
## Gas Discharge Tube – SA151N Series

### Electrical Characteristics

Part Number	DC Spark-over Voltage @ 100V/S	Impulse Spark-over Voltage @ 1kV/μS	Impulse Discharge Current	Impulse Life Test	Minimum Insulation Resistance Test @ 100 Vdc	Maximum Capacitance @ 1.0 MHz	UL Certification (E474915)
	(V)	(V)	(kA)	(A)	(GΩ)	(pF)	
SA151N	150±30%	≤ 750	1	100	1	0.5	Pending

### Lead Free Reflow Soldering Recommendations

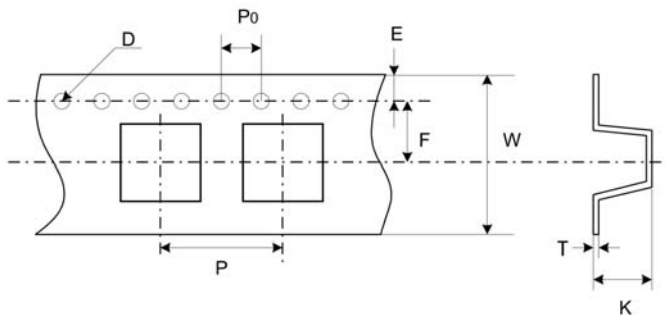
<b>Preheat</b>	
- Temperature Min (T <sub>smin</sub> )	150°C
- Temperature Max (T <sub>smax</sub> )	200°C
- Time (T <sub>smin</sub> to T <sub>smax</sub> )	60-180 seconds
- Average Ramp-Up Rate	1~3°C/second
<b>Peak Temperature</b>	260°C max.
<b>Time within 5°C of actual Peak Temperature (t<sub>p</sub>)</b>	40 seconds max.
<b>Ramp-Down Rate</b>	6 °C /second max.



Note: If the wave soldering temperatures exceed the recommended profile, devices may not meet the performance requirements.

### Packaging Information

Part Number	Quantity	
	EA/Roll	EA/Box
SA151N	2500	7500



Dimension	Millimeters
P	8.0±0.1
P0	4.0±0.1
D	1.55±0.05
E	1.75±0.1
F	5.45±0.1
W	12.0±0.3
T	0.4±0.05
K	3.2±0.1