FEATURES

- Very small size.μs.
- Small ： 5.0*5.0mm
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance and insertion loss.
- Reliable to protect electrostatic surge.

APPLICATION

- Repeaters, Modems.
- Telephone interface, line cards.
- Data communication equipment.
- Line test equipment.

ELECTRICAL CHARACTERISTIC

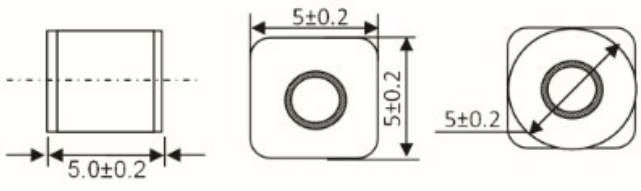
Part Number	DC Breakdown Voltage 100V/s(V)	Tolerance of Vs	Impulse spark-over voltage 1kV/μs(V)	Insulation Resistance		Impulse Discharge Current 8/20μs(A)	C
	V	%	V	GΩ	DC	KA	pF
SGC091N	90	±30	≤550	≥1	50	5	≤1

1.The paramenters of all tested by ITU-T K12.

2.Total Impulse discharge current 1000A@ 8/20μs by IEC 61000-4-5,10 shots.

3.The capacitance are tested by 1MHz @DC=0.3V.

PACKAGE DIMENSIONS （unit：mm）



PART NUMBER CODE

SGC 091 N

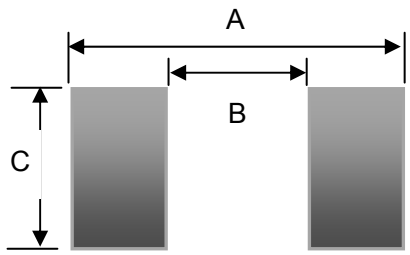
① ② ③

① Gas discharge tube in 5.0*5.0 (mm)

② DC breakdown Voltage;

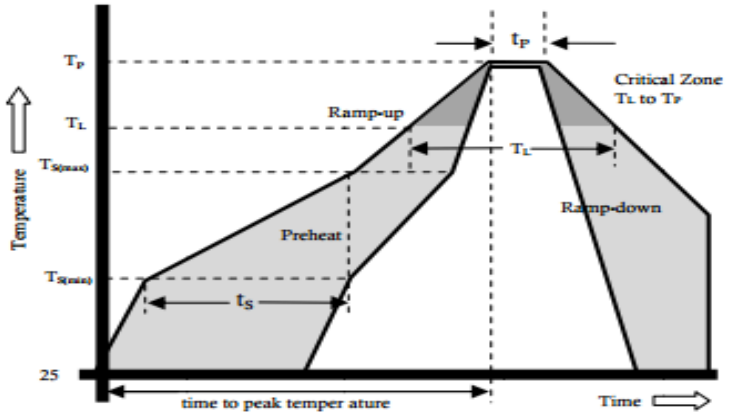
③Tolerance is DC breakdown voltage，L=±15%，M=±20%，N=±30%

RECOMMENDED SOLDERING PAD



REF	mm
A	5.5
B	3.0
C	5.5

REFLOW PROFILE



Reflow Condition		Pb-Free assembly
Pre Heat	Temperature Min	150℃
	Temperature Max	200℃
	Time(min to max)	60-180 secs
Average ramp up rate(Liquids)Tamp(TL)to peal		3℃/second max
Ts(max)to TL-Ramp-up Rate		3℃/second max
Reflow	-Temperature(TL)(Liquids)	217℃
	-Temperature(TL)	60-150seconds
Peak Temperature(Tp)		260+0/-5℃
Time within 5℃ of actual peak Temperature(tp)		~10 seconds
Ramp-down Rate		6℃/second max.
Time 25℃to peak Temperature(Tp)		8 minutes Max.
Do not exceed		260℃

*Note: all products, can be customized according to customer requirements