

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 |

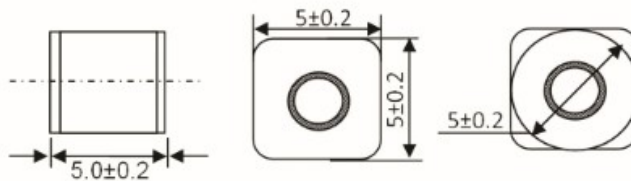
1.The parameters of all tested by ITU-T K12.

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

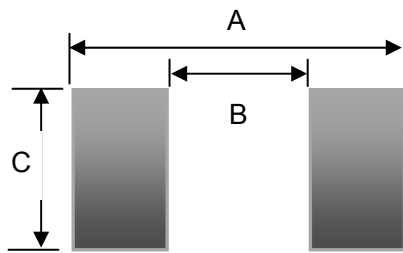
① ② ③

① Gas discharge tube in 5.0*5.0 (mm)

② DC breakdown Voltage;

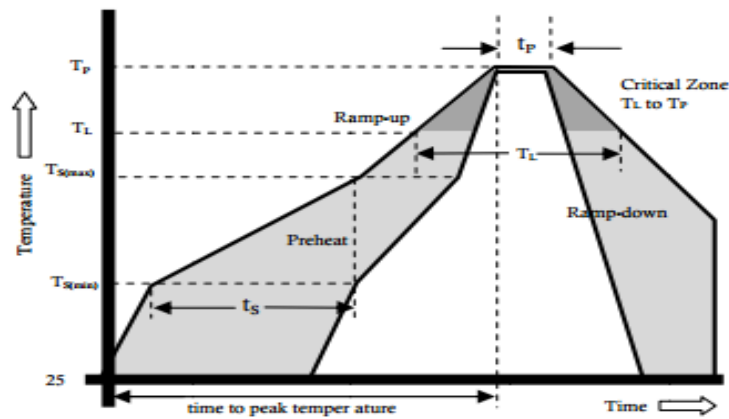
③Tolerance is DC breakdown voltage, L=±15%, M=±20%, N=±30%

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

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

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