

## FEATURES

- Provide ultra-fast response to surge voltage from slow-rising of 100V/s to rapid-rising surge of 1KV/μs.
- Small : 5.0\*7.5mm
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance and insertion loss.
- Reliable to protect electrostatic surge.
- High Current Handing Capability 5,000A@8/20us.



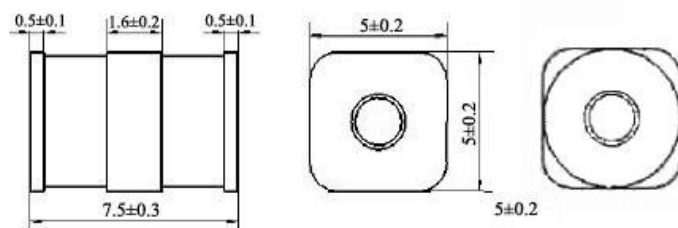
## APPLICATION

- 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± 5times	C
	V	%	V	GΩ	DC	KA	pF
SGD091N	90	±30	≤700	≥1.0	50	5	2.0

## PACKAGE DIMENSIONS



Unit:mm

## PART NUMBER CODE

**SG D 091 N**

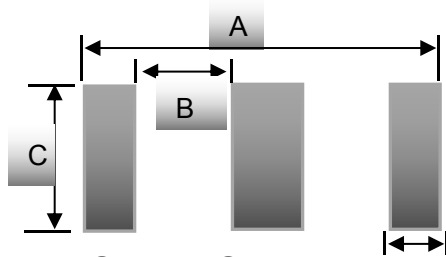
① ② ③ ④

- ① Sembo 3-Electrod DIP Gas Discharge Tube
- ② Gas discharge tube in 5.0\*7.5(mm)
- ③ DC breakdown Voltage
- ④ Tolerance is DC breakdown voltage, L=±15%, M=±20%, N=±30%

### PACKAGING

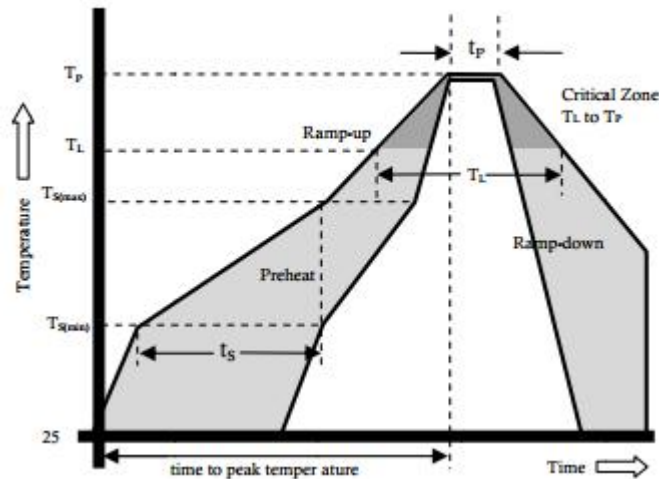
Part Number	Component Package	Quantity
SGD091N	5.0*7.5	500

### RECOMMENDED SOLDERING PAD



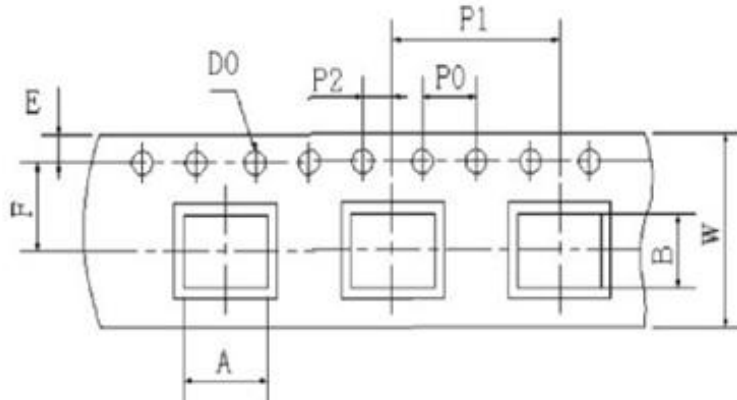
REF	mm
A	8.5
B	2.8
C	5.8

### REFLOW PROFILE

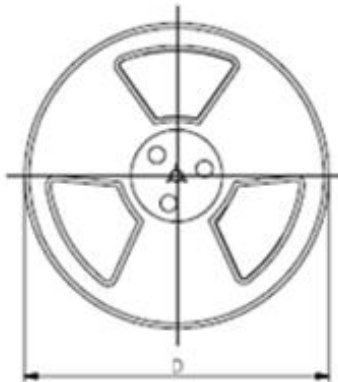


Reflow Condition		Pb-Free assembly
Pre Heat	Temperature Min	150°C
	Temperature Max	200°C
	Time(min to max)	60-180 secs
Average ramp up rate(Liquids)Tamp(TL)to peal		3°C/second max
Ts(max)to TL-Ramp-up Rate		3°C/second max
Reflow	-Temperature(TL)(Liquids)	217°C
	-Temperature(TL)	60-150seconds
Peak Temperature(Tp)		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

**Packing Information:**



Item	Dim(mm)
A	6.0±0.10
B	9.0±0.10
D0	Ø1.5±0.1
E	1.75±0.10
F	7.5±0.10
P0	4.0±0.1
P1	8.0±0.10
P2	2.0±0.1
W	16.0±0.3



SYMBOL	DIMENSION(mm)	QUANLITY
D	330.0	1500PCS
D1	58.0Min	
D2	13 ± 0.15	
W1	16 ± 0.5	

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