

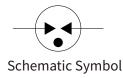
## **FEATURES**

I	Surface	Mounting	Design	5.0*5.	0*4.2mm
	oundee	mounting	0001811	0.0 0.	0 1.211111

- High Current Handling Capability 5000A @ 8/20 μs
- Low Capacitance and Insertion Loss
- Quick Response and Long Service Life
- Moisture sensitivity level:Level 1



5.0\*5.0\*4.2mm



# **APPLICATION INFORMATION**

Communication equipment.

- Repeaters, Modems
- Telephone Interface,Line cards.

Data communication equipment.

## **AGENCY APPROVALS**

lcon	Solderability		
RoHS	Compliance with 2011/65/EU		
HF	Compliance with IEC61249-2-21:2003		
Ø	Mean lead free		

# **PRODUCT CHARACTERISTICS**

Lead Material	Body Material	Terminal Finish
Copper or Fe-Ni alloy	Ceramics	100% Matte-Tin Plated



# **ELECTRICAL PARAMETER**

Parameter	Condition	Rating	Unit
DC Blocking Voltage 1)	100V/s	260-310	V
Impulse Spark-over Voltage	At 1kV/µs	for 99 % of measured values $\leqslant$ 900	V
	At 1kV/µs	Typical values of distribution $\leq$ 850	V
Impulse Discharge Current 2)	8/20µs	5000	А
AC Discharge Current	50Hz, 1S, 10times	5	А
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V <sub>DC</sub> =0.5V	≤ 0.8	рF
Operating and Storage Temperature		-40-125	°C

1) In ionized mode

2) Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21

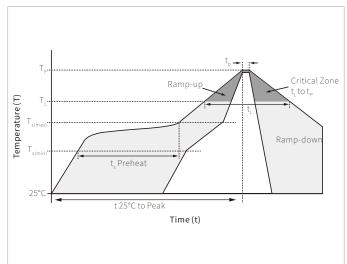
## **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

Testing items	Technical standards
High Temperature Storage Test	Temperature: 85°C ; Time:2H
Low Temperature Storage Test	Temperature: -40°C; Time:2H
Vibration	Frequency: 10-500Hz ; Amplitude:0.15mm ; Time:45min
Resistance of soldering heat	Temperature: 260±5°C; Time of dip soldering:10s, 1time

NOTE: Up-screen program can be specified by customer's request via contacting Semiware service

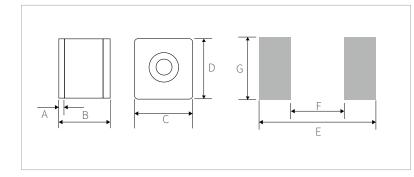
## **REFLOW PROFILE**

Reflow Condition		Lead-free assembly
	Temperature Max (T <sub>s(min)</sub> )	150°C
Pre Heat	Temperature Max (T <sub>s(max)</sub> )	200°C
	Time (min to max) $(t_s)$	60 – 180 secs
Average ramp up rate (Liquidus Temp (T <sub>L</sub> ) to peak		3°C/second max
T <sub>s(max)</sub> to T₋ - Ramp-up Rate		3°C/second max
Reflow	Temperature (T <sub>L</sub> ) (Liquidus)	217°C
Rellow	Time (min to max) ( $t_{L}$ )	60 – 150 seconds
Peak Temperature (T <sub>P</sub> )		260°C
Time within 5°C of actual peak Temperature (t <sub>p</sub> )		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T₅)		8 minutes max.
Do not exceed		260°C



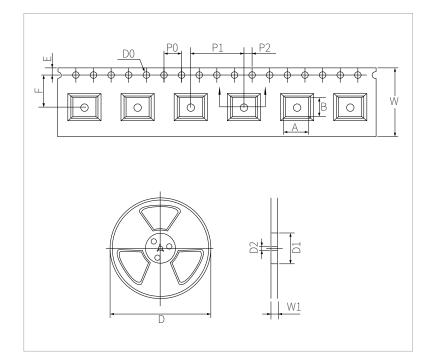


## DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	ef. mm	
A 0.5±0.1		
В	4.2±0.3	
С	5.0±0.2	
D	5.0±0.2	
E	4.7	
F	2.5	
G 5.5		

## PACKAGE REEL INFORMATION



Ref.	mm	inch
A	5.5±0.1	0.217±0.004
В	4.7±0.2	0.185±0.008
DO	Φ1.5±0.1	Ф0.059±0.004
PO	4.0±0.1	0.157±0.004
P1	12.0±0.1	0.472±0.004
P2	2.0±0.1	0.079±0.004
E	1.75±0.1	0.069±0.004
F	7.5±0.1	0.295±0.004
W	16.0±0.3	0.630±0.012
D	Ф 330.0	Φ13.0
D1	Φ 50Min	Ф 1.97Min
D2	Φ13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

## **ORDERING INFORMATION**

Part Number	Size	QTY/Reel	Reel Size
SG5042B275	5.0*5.0*4.2mm	1000	13"



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