

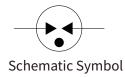
## **FEATURES**

1	Surface	Mounting	Design !	5.0*5.0	)*4.2mm
	Junace	mounting	Designi	5.0 5.0	/ 1.2111111

- 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**

Icon Solderability	
RoHS	Compliance with 2011/65/EU
HF Compliance with IEC61249-2-21:2003	
P	Mean lead free
UL Certificated E505857	

## **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	240-360	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	pF
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

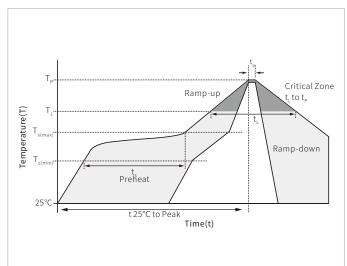
### **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

Testing items	Technical standards	
High Temperature Storage TestTemperature: 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

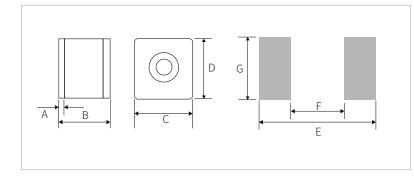
### **REFLOW PROFILE**

	Reflow Condition	Lead-free assembly	
	Temperature Min	150°C	
Pre Heat	Temperature Max	200°C	
	Time(min to max)	60 – 180 secs	
Average ra	mp up rate (Liquidus)Temp (T $_{L}$ ) to peak	3°C/second max	
	$T_{s(max)}$ to $T_{L}$ - Ramp-up Rate	5 6/ 30001110	
Deflesse	Temperature $(T_{L})$ (Liquidus)	217°C	
Reflow	Time(min to max)(t <sub>s</sub> )	60 – 150 seconds	
Peak Temperature (T <sub>P</sub> )		260 °C	
Time with	iin 5°C of actual peak Temperature (tp)	20-40 seconds	
Ramp-do	own Rate	6°C/second max	
Time 25°	C to peak Temperature (T <sub>P</sub> )	8 minutes max.	
Do not exceed		260°C	



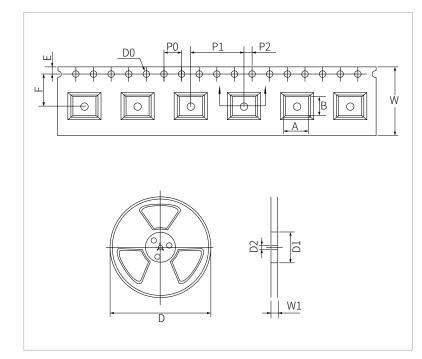


### DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm
А	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
А	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	Φ 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
SG5042B300	5.0*5.0*4.2mm	1000	13"



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#### By QR Code





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