

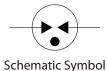
## **FEATURES**

1	Surface	Mounting	Design	5.4*5.4*5.0mm	
	Junace	mounting	Design	J.+ J.+ J.0IIIIII	

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



5.4\*5.4\*5.0mm



# **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	
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 Spark-over Voltage 1)	100V/s	240-360	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤950	V
impuise spareover voltage	At 1kV/µs	Typical values of distribution ≤900	
Discharge Current (8/20us) 2)	10 times	5	KA
AC Discharge Current	50Hz, 1S	5	А
Minimum Insulation Resistance	Test Voltage DC=100V	1	GΩ
Max. Capacitance 1MHz	V <sub>DC</sub> =0.5V	1	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

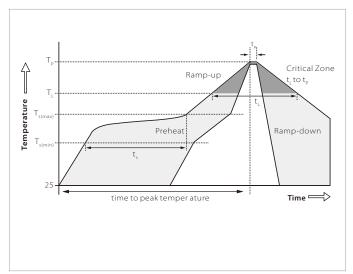
# **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

Testing items	Technical standards
High Temperature Storage 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

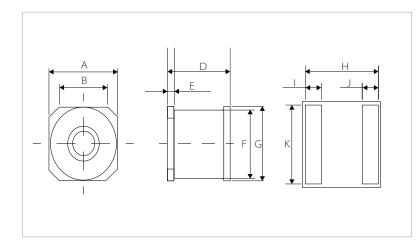
### **REFLOW PROFILE**

	Reflow Condition	Lead-free assembly	
	Temperature Min	150°C	
Pre Heat	Temperature Max	200°C	
	Time(min to max)	60-180 secs	
Average ra	amp up rate (Liquidus)Temp ( $T_{L}$ ) to peak $T_{s}$ (max)to $T_{L}$ - Ramp-up Rate	3°C/second max	
Reflow	Temperature (T <sub>L</sub> ) (Liquidus)	217°C	
Reflow	Temperature (T <sub>L</sub> )	60-150 seconds	
PeakTem	perature (T <sub>p</sub> )	245~260 °C	
Time with	in 5°C of actual peak Temperature (tp)	30 seconds	
Ramp-dc	own Rate	6°C/second max	
Time 25°0	C to peak Temperature (T <sub>p</sub> )	8 minutes max.	
Do not exceed		260°C	





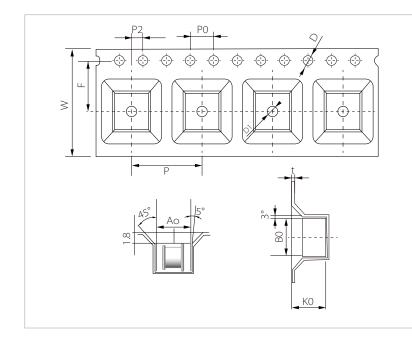
### DIMENSIONS AND RECOMMENDED SOLDERING PAD



SEMIWARE®

Ref.	mm
A	5.4±0.1
В	3.8
D	5.0±0.2
E	0.5±0.1
F	Φ5.0±0.1
G	Φ5.4±0.1
Н	5.7
I	1.2
J	1.2
K	5.8

# PACKAGE REEL INFORMATION



Ref.	mm
W	16.0±0.3
Р	12.0±0.1
F	7.5±0.1
P2	2.0±0.1
D	1.5±0.1
D1	1.5±0.1
PO	4.0±0.1
10P0	40.0±0.2
AO	5.7±0.1
ВО	5.7±0.1
КО	5.7±0.1
t	0.4±0.05

## **ORDERING INFORMATION**

Part Number	Size	Marking	QTY/Reel	Reel Size
SG2R05B300A	5.4*5.4*5.0mm	🕢 SG300 <u>05</u>	800	13″



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#### By QR Code





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