

## **FEATURES**

| Surface Mounting Design 8.3\*8.3\*6.0mm

High Current Handling Capability 10000A @ 8/20 μs

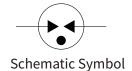
Low Capacitance and Insertion Loss

| Quick Response and Long Service Life

| Moisture sensitivity level:Level 1



8.3\*8.3\*6.0mm



## **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	
Pb	Mean lead free	
<b>R</b> .	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	2880-4320	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 5000	V
impuise Spark-over voltage	At 1kV/μs	Typical values of distribution ≤ 4700	V
Impulse Discharge Current 2)	8/20µs	10000	А
AC Discharge Current	50Hz, 1S, 10times	20	Α
Insulation Resistance	DC=250V	≥ 1	GΩ
Capacitance at 1MHz	V <sub>DC</sub> =0.3V	≤ 1.5	pF
Operating and Storage Temperature		-40-125	°C

<sup>1)</sup> In ionized mode

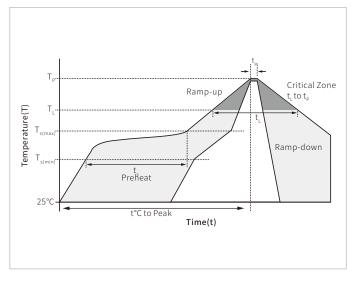
# **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

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**

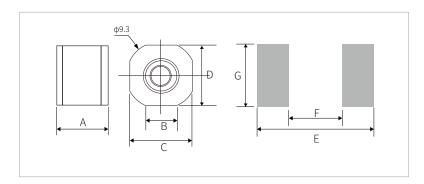
Reflow Condition		Lead-free assembly
	Temperature Min	150°C
Pre Heat	Temperature Max	200°C
	Time(min to max)	60 – 180 secs
Average ramp up rate (Liquidus)Temp ( $T_L$ ) to peak $T_s$ (max)to $T_L$ - Ramp-up Rate		3°C/second max
Reflow	Temperature (T」) (Liquidus)	217°C
Rellow	$Time(min to max)(t_s)$	60 – 150 seconds
Peak Tem	nperature (T₅)	260 °C
Time within 5°C of actual peak Temperature (tp)		10-30 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T₅)		8 minutes max.
Do not exceed		260°C



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

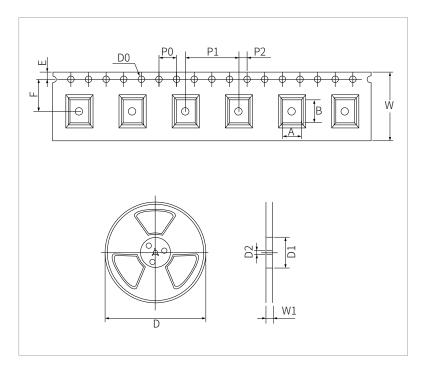


# **DIMENSIONS AND RECOMMENDED SOLDERING PAD**



Ref.	mm
А	6.0±0.2
В	4.2±0.1
С	8.3±0.2
D	8.3±0.2
E	7.0
F	4.0
G	8.0

# PACKAGE REEL INFORMATION



Ref.	mm	inch
А	6.5±0.1	0.256±0.004
В	8.4±0.1	0.331±0.004
D0	Ф 1.5±0.1	Ф 0.059±0.004
P0	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	16.5±0.4	0.650±0.016
D	Ф 330.0	Ф 13.0
D1	Ф 50Min	Ф 1.97Min
D2	Ф 13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

# **ORDERING INFORMATION**

Part Number	Size	QTY/Reel	Reel Size
SG2R09B3600	8.3*8.3*6.0mm	600pcs	13"



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## By QR Code





Website

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