

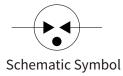
## **FEATURES**

Surface Mounting Design 8.3*8.3*6.0mr	m
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- High Current Handling Capability 20000A @ 8/20  $\mu s$
- 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**

lcon	Solderability		
RoHS	Compliance with 2011/65/EU		
HF	Compliance with IEC61249-2-21:2003		
(P)	Mean lead free		
IR.	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	
DC Spark-over Voltage 1)	100V/s	72-108	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤600	V
inipulse Spain-over voltage	At 1kV/µs	Typical values of distribution ≤550	
Discharge Current (8/20us) 2)	10 times	20	
AC Discharge Current	50Hz, 1S	20	
Minimum Insulation Resistance	Test Voltage DC=50V	1	
Max. Capacitance 1MHz	V <sub>DC</sub> =0.5V	1.5	
Operating and Storage Temperature		-40~125	°C

2) In ionized mode

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

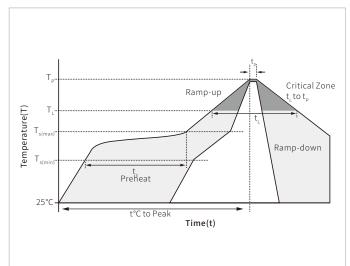
### **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

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	g 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

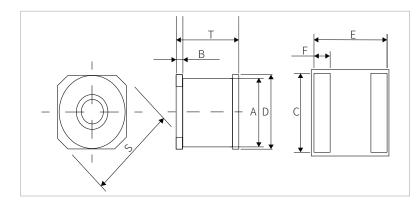
### **REFLOW PROFILE**

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		3°C/second max	
T <sub>s</sub> (max)to T <sub>L</sub> - Ramp-up Rate			
Reflow	Temperature (T <sub><math>_{l</math>) (Liquidus)</sub>	217°C	
Renow	Time(min to max)(t <sub>s</sub> )	60 – 150 seconds	
Peak Tem	nperature (T <sub>P</sub> )	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 (T <sub>P</sub> )		8 minutes max.	
Do not exceed		260°C	



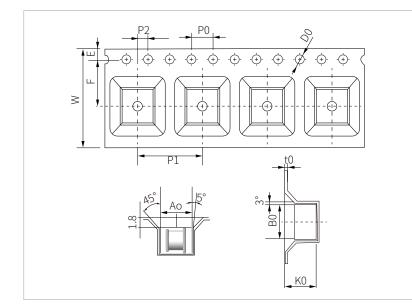


## DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm
A	8.0±0.2
В	0.5±0.1
С	9.0
D	8.3±0.2
E	6.7
F	1.2
Т	6.0±0.25
S	9.0±0.4

## PACKAGE REEL INFORMATION



Ref.	mm
W	16.0±0.3
PO	4.0±0.1
P1	12.0±0.1
P2	2.0±0.1
D0	1.55±0.05
E	1.75±0.1
F	7.5±0.1
A0	6.35±0.1
K0	6.55±0.1
BO	8.65±0.1
tO	0.5±0.1

# **ORDERING INFORMATION**

Part Number	Size	Marking	QTY/Reel	Reel Size
SG2R08B090A	8.3*8.3*6.0mm	✗ SG090 08	600	13"



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#### By QR Code





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