

## **FEATURES**

Surface Mounting Design 8.3\*8.3\*6.0mm

High Current Handling Capability 20000A @ 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**

lcon	Solderability		
RoHS	Compliance with 2011/65/EU		
HF	Compliance with IEC61249-2-21:2003		
<b>P</b> 6	Mean lead free		
<i>IR</i> 。	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	72-108	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤600	V
impuise spark-over voltage	At 1kV/μs	Typical values of distribution ≤550	
Discharge Current (8/20us) 2)	10 times	20	KA
Discharge Current (10/350us) 2)	1 times	4	
AC Discharge Current	50Hz, 1S	20	Α
Minimum Insulation Resistance	Test Voltage DC=50V	1	GΩ
Max. Capacitance 1MHz	V <sub>DC</sub> =0.5V	1.5	
Operating and Storage Temperature		-40~125	°C

<sup>2)</sup> In ionized mode

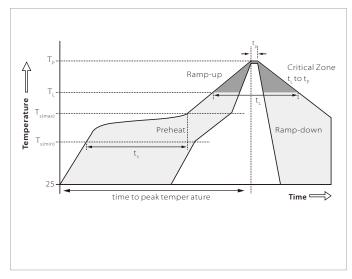
# **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

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**

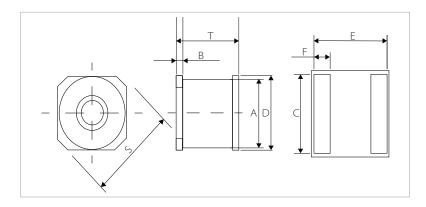
Reflow Condition		Lead-free assembly	
	Temperature Min	150°C	
Pre Heat	Temperature Max	200°C	
	Time(min to max)	60-180 secs	
Average ramp up rate (Liquidus)Temp ( $T_L$ ) to peak		3°C/second max	
T₅(max)to T₁ - Ramp-up Rate			
Reflow	Temperature (T <sub>L</sub> ) (Liquidus)	217℃	
Nellow	Temperature $(T_L)$	60-150 seconds	
PeakTem	eak Temperature (T <sub>p</sub> ) 260+0/-5 °C		
Time within 5°C of actual peak Temperature (tp)		~10 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T₅)		8 minutes max.	
Do not exceed		260°C	



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

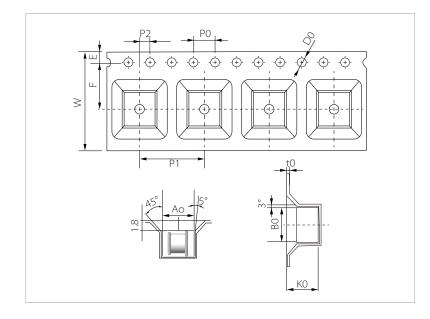


## **DIMENSIONS AND RECOMMENDED SOLDERING PAD**



Ref.	mm		
А	8.0±0.2		
В	0.5±0.1		
С	9.0		
D	8.3±0.2		
Е	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
ВО	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	<b>%</b> SG090 <u>08</u>	600	13″



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