

| Moisture sensitivity level:Level 1

### **FEATURES**

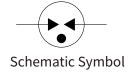
Surface Mounting Design 4.5\*3.2\*2.7mm

High Current Handling Capability 3000A @ 8/20 μs

Low Capacitance and Insertion Loss

Quick Response and Long Service Life





## **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)2)	tage 1)2) 100V/s 72-108		V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 700	
impuise Spaik-over voltage	At 1kV/μs	Typical values of distribution ≤ 600	
Impulse Discharge Current 3)	8/20μs	3000	А
impuise discharge currents)		[5×(+) &5×(-)]	Times
Insulation Resistance	DC=50V ≥ 1		GΩ
Capacitance at 1MHz	V <sub>DC</sub> =0.5V ≤ 1.0		pF
Operating And Storage Temperature		-40-125	°C

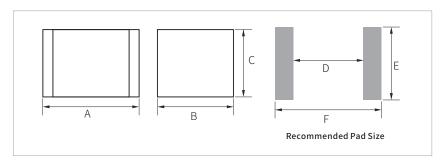
<sup>1)</sup> At delivery AQL 0.65 level II, ISO2859

# **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

## **DIMENSIONS AND RECOMMENDED SOLDERING PAD**



Ref mm		
А	4.5±0.3mm	
В	3.2±0.3mm	
С	2.7±0.3mm	
D	2.8mm	
E	4.0mm	
F	5.2mm	

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

<sup>3)</sup> Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-311

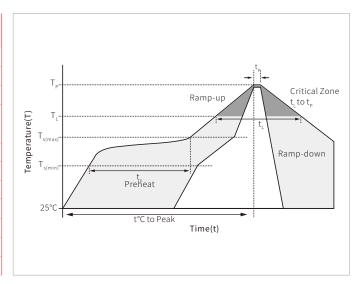


# **SOLDERABILITY TEST**

Solderability		
Solder Pot Temperature	Solder Dwell Time	
245°C ± 5°C	4-6 seconds	

# **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 <sub>s(max)</sub> to T <sub>L</sub> - Ramp-up Rate		5 C/Second max	
Reflow	Temperature (T <sub>L</sub> ) (Liquidus)	217°C	
Reliow	Time(min to max)(t <sub>s</sub> )	60 – 150 seconds	
Peak Temperature (T₅)		260 °C	
Time within 5°C of actual peak Temperature (tp)		20-40 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T♭)		8 minutes max.	
Do not exceed		260°C	



# **ORDERING INFORMATION**

Part Number	Size	QTY/Reel	Reel Size
SG4532B090H	4.5*3.2*2.7mm	2500PCS	13"



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#### By QR Code





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