

### **FEATURES**

Surface Mounting Design 5.0\*5.0mm

High Current Handling Capability 5,000A @ 8/20 µs

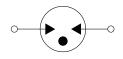
Low Capacitance and Insertion Loss

Quick Response and Long Service Life

Moisture sensitivity level: Level 1



5.0\*5.0mm



Schematic Symbol

# **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>%</b>	Mean lead free

# **PRODUCT CHARACTERISTICS**

Lead Material	Body Material	Terminal Finish  100% Matte-Tin Plated	
Copper or Fe-Ni alloy	Ceramics		



## **ELECTRICAL PARAMETER**

Parameter	Symbol	Limit	Unit
DC Blocking Voltage 1)	100V/s	100V/s 120-180	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 750	V
impuise spain over voltage	At 1kV/μs	Typical values of distribution ≤ 700	V
Impulse Discharge Current 2)	8/20µs	5,000	А
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V <sub>DC</sub> =0.5V	≤ 1.5	рF
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

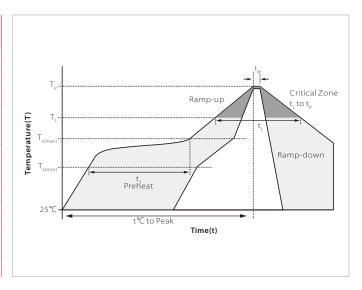
**NOTE:** Up-screen program can be specified by customer's request via contacting Semiware service

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

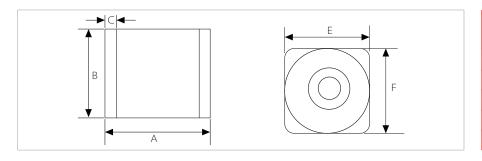


## **REFLOW PROFILE**

	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	3°C/second max	
	$T_s$ (max)to $T_L$ - Ramp-up Rate		
Reflow	Temperature (T <sub>L</sub> ) (Liquidus)	217℃	
Kellow	Time(min to max)( $t_s$ )	60 – 150 seconds	
PeakTem	perature (T,)	260°C	
Time with	in 5°C of actual peak Temperature (tp)	10-30 seconds	
Ramp-do	wn Rate	6°C/second max	
Time 25°0	C to peak Temperature (T,)	8 minutes max.	
Do not exceed		260°C	



# PRODUCT DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	Outline Dimensions
nei.	Millimeters
А	5.0±0.3
В	5.0±0.3
С	0.5±0.1
Е	5.0±0.3
F	5.0±0.3

## **ORDERING INFORMATION**

Part Number	Size	Marking	QTY/Reel	Reel Size
SG2D05B150	5.0*5.0mm	<b>愛</b> SG150 <u>05</u>	1000PCS	13″



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### By QR Code





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