

## **FEATURES**

| Surface Mounting Design 5.0\*5.0\*7.5mm

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

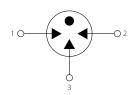
Low Capacitance and Insertion Loss

| Quick Response and Long Service Life

| Moisture sensitivity level: Level 1



5.0\*5.0\*7.5mm



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> 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	Symbol	Limit	Unit
DC Blocking Voltage 1)	100V/s	376-564	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 1050	V
impuise spain over voltage	At 1kV/μs	Typical values of distribution ≤1000	V
Impulse Discharge Current 2)	8/20µs	5,000	А
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	Capacitance at 1MHz V <sub>DC</sub> =0.5V ≤ 1.5		рЕ
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		

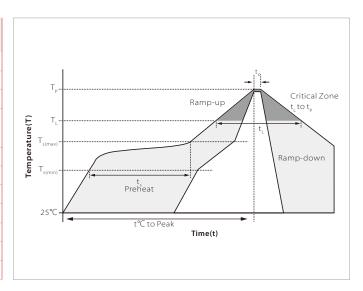
**NOTE:** Up-screen program can be specified by customer's request via contacting Semiware service

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

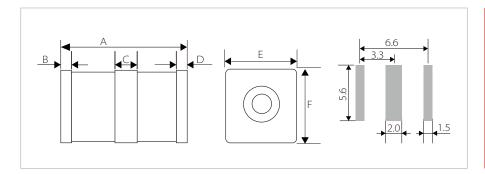


## **REFLOW PROFILE**

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	
Peak Tem	perature (T,)	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	



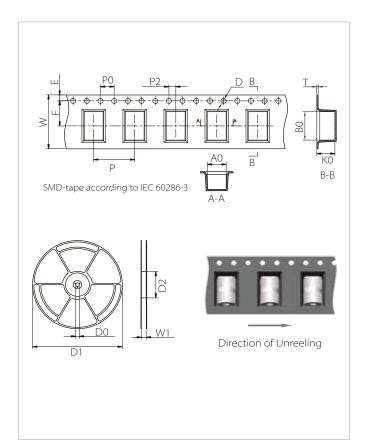
# PRODUCT DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	Outline Dimensions
	Millimeters
А	7.6±0.3
В	0.5±0.2
С	1.6±0.2
D	0.5±0.2
E	5.0±0.2
F	5.0±0.2



## **TAPE AND REEL SPECIFICATION**



Ref.	Dimensions		
nei.	Millimeters	Inches	
W	16±0.3	0.630±0.012	
A0	5.4±0.1	0.213±0.004	
BO	8.4±0.1	0.331±0.004	
K0	5.3±0.1	0.209±0.004	
Р	12±0.1	0.472±0.004	
F	7.5±0.1	0.295±0.004	
E	1.75±0.1 0.069±0.004		
D	1.5+0.1/-0.0 0.059+0.004/-0.		
P0	4±0.1	0.157±0.004	
P2	2±0.1	0.079±0.004	
Т	0.4±0.1 0.016±0.004		
D0	13.3±0.15 0.524±0.006		
D1	330±2 12.992±0.079		
D2	100+1/-2 3.937+0.039/-0.079		
W1	16.5±0.4	0.65±0.016	

# **ORDERING INFORMATION**

Part Number	Size	Marking	QTY/Reel	Reel Size
SG3D05B470	5.0*5.0*7.5mm	SG3D05B470	1000PCS	13″



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### By QR Code





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