

FEATURES

| Surface Mounting Design 5.0*5.0*4.2mm | High Current Handling Capability 5000A @ 8/20 µs

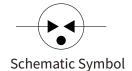
| Low Capacitance and Insertion Loss

| Quick Response and Long Service Life

| Moisture sensitivity level:Level 1



5.0*5.0*4.2mm



APPLICATION INFORMATION

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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 UL Certificated E505857	
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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)	100V/s	184-276	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 800	V
impuise Spaik-Over voltage	At 1kV/μs	Typical values of distribution ≤ 700	V
Impulse Discharge Current 2)	8/20µs	5000	А
AC Discharge Current	50Hz, 1S, 10times	5	А
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V	≤ 0.8	pF
Operating And Storage Temperature		-40-125	°C

¹⁾ In ionized mode

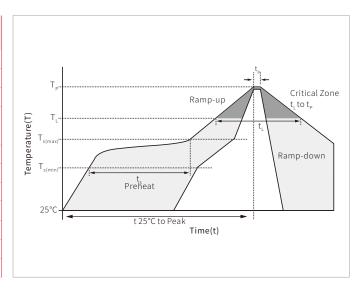
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

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

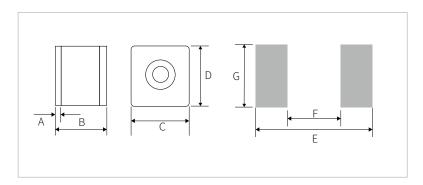
Reflow Condition		Lead-free assembly
	Temperature Min	150°C
Pre Heat	Temperature Max	200°C
	Time(min to max)	60 – 180 secs
Average ra	mp up rate (Liquidus) Temp (T_L) to peak	3°C/second max
	$T_{s_{(max)}}$ to T_{ι} - Ramp-up Rate	
Reflow	Temperature (T _L) (Liquidus)	217°C
Reliow	Time(min to max)(t _s)	60 – 150 seconds
Peak Temperature (T _p)		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 (T₅)		8 minutes max.
Do not exceed		260°C



²⁾ Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-311

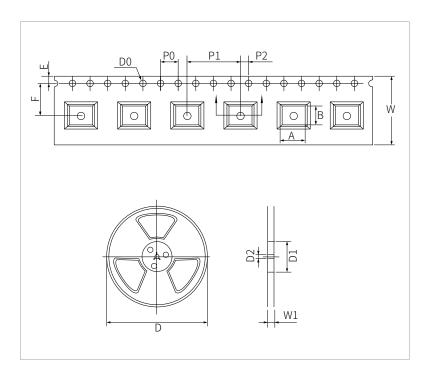


DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm
А	0.5±0.1
В	4.2±0.3
С	5.0±0.2
D	5.0±0.2
E	4.7
F	2.5
G	5.5

PACKAGE REEL INFORMATION



Ref.	mm	inch
А	5.5±0.1	0.217±0.004
В	4.7±0.2	0.185±0.008
D0	Φ1.5±0.1	Ф 0.059±0.004
P0	4.0±0.1	0.157±0.004
P1	12.0±0.1	0.472±0.004
P2	2.0±0.1	0.079±0.004
E	1.75±0.1	0.069±0.004
F	7.5±0.1	0.295±0.004
W	16.0±0.3	0.630±0.012
D	Ф 330.0	Ф 13.0
D1	Φ 50Min	Ф 1.97Min
D2	Ф 13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
SG5042B230	5.0*5.0*4.2mm	1000	13"



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