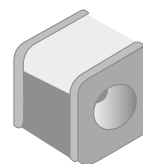
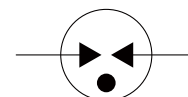


FEATURES

- | Surface Mounting Design 5.5*4.2*4.2mm
- | High Current Handling Capability 3,000A @ 8/20 μ s
- | Low Capacitance and Insertion Loss
- | Quick Response and Long Service Life
- | Moisture sensitivity level: Level 1



5.5*4.2*4.2mm




Schematic Symbol

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
	Mean lead free

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	2880-4320	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 5000	V
	At 1kV/μs	Typical values of distribution ≤ 4800	V
Impulse Discharge Current 2)	8/20μs	3000	A
AC Discharge Current	50Hz, 1S, 10times	5	A
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V	≤ 0.6	pF
Operating and Storage Temperature		-40-125	°C

1) In ionized mode

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

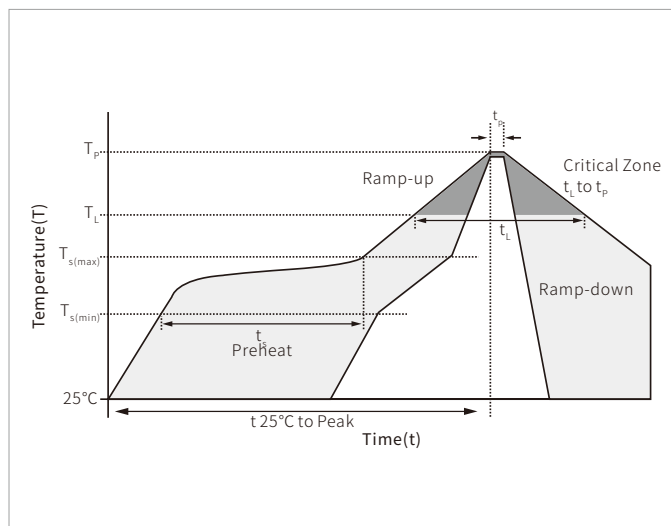
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

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

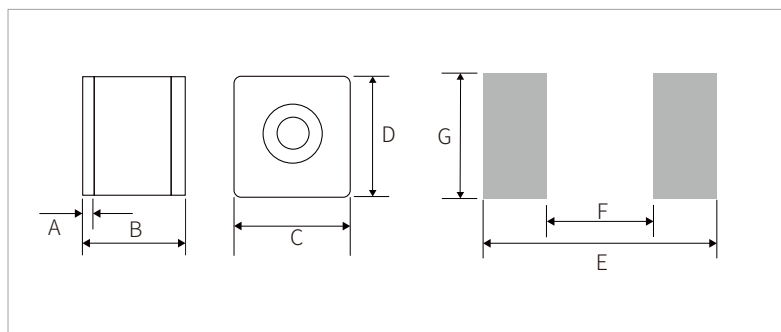
NOTE: Up-screen program can be specified by customer' s request via contacting Semiware service

REFLOW PROFILE

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Min	150°C
	Temperature Max	200°C
	Time(min to max)	60 – 180 secs
Average ramp up rate (Liquidus)Temp (T _L) to peak T _{s(max)} to T _L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T _L) (Liquidus)	217°C
	Time(min to max)(t _s)	60 – 150 seconds
Peak Temperature (T _p)		260 °C
Time within 5°C of actual peak Temperature (t _p)		20-40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T _p)		8 minutes max.
Do not exceed		260°C

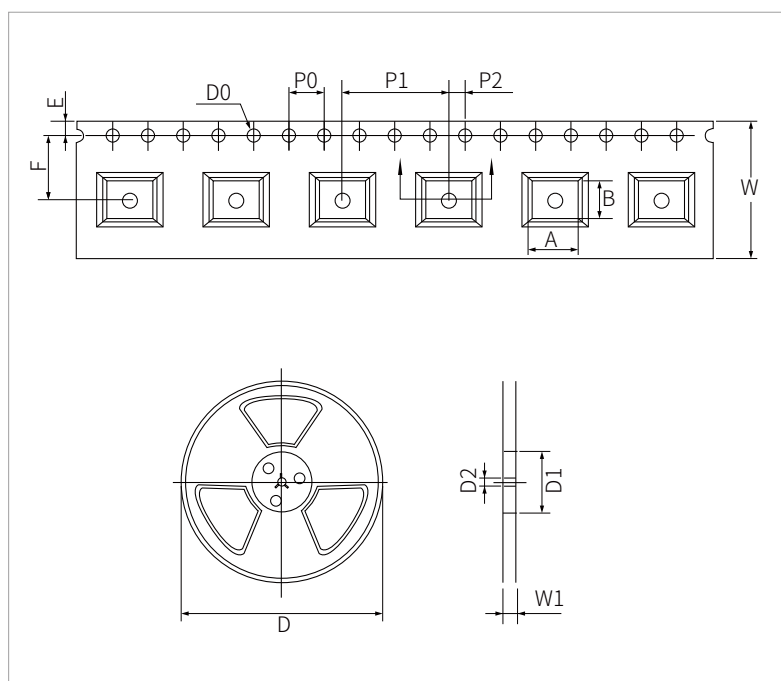


DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm
A	0.45 ± 0.1
B	5.5 ± 0.2
C	4.2 ± 0.2
D	4.2 ± 0.2
E	6.1
F	4.4
G	4.2

PACKAGE REEL INFORMATION



Ref.	mm	inch
A	4.5 ± 0.1	0.177 ± 0.004
B	5.8 ± 0.1	0.228 ± 0.004
D0	$\Phi 1.5 \pm 0.2$	$\Phi 0.059 \pm 0.008$
P0	4.0 ± 0.2	0.157 ± 0.008
P1	8.0 ± 0.5	0.472 ± 0.020
P2	2.0 ± 0.2	0.079 ± 0.008
E	1.75 ± 0.2	0.069 ± 0.008
F	7.5 ± 0.2	0.295 ± 0.008
W	16.0 ± 0.5	0.630 ± 0.020
D	$\Phi 330.0 \pm 2$	$\Phi 12.99 \pm 0.079$
D1	$\Phi 100 \pm 1/-2$	$\Phi 3.94^{+0.039}_{-0.078}$
D2	$\Phi 13 \pm 0.15$	0.512 ± 0.006
W1	20 ± 1	0.787 ± 0.039

ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
SG5542B3600	5.5*4.2*4.2mm	1600	Box

Headquarters

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Minhang Shanghai China
201000

Hotline

400-021-5756

Web

<https://www.semiware.com>

Sales Center

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Customer Service

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Complaint & Suggestions

Tel: 86-21-3463-7172
Ext: 8868
Email: cs03@semiware.com

By QR Code

Website



Wechat

To find your local partner within Semiware's global website: www.semiware.com

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