

FEATURES

Surface Mounting Design 6.2*6.2*4.2mm

High Current Handling Capability 3000A @ 8/20 µs

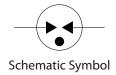
Low Capacitance and Insertion Loss

Quick Response and Long Service Life

Moisture sensitivity level: Level 1



6.2*6.2*4.2mm



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
%	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	s 800-1200	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 1700	V
impuise spaik over voitage	At 1kV/μs	Typical values of distribution ≤ 1600	V
Impulse Discharge Current 2)	8/20µs	3000	А
AC Discharge Current	50Hz, 1S, 10times	10	А
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V ≤ 1.5		рF
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

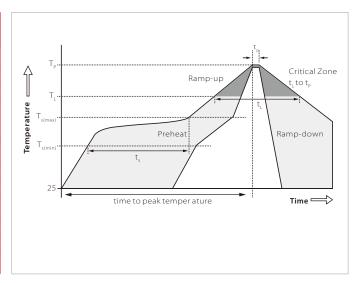
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service

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

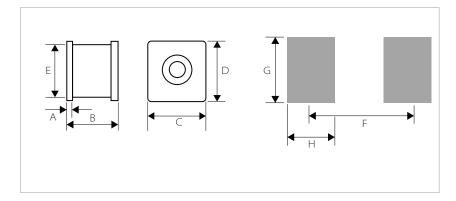


REFLOW PROFILE

	Reflow Condition	Pb-Free assembly	
	Temperature Min	150°C	
Pre Heat	Temperature Max	200°C	
	Time(min to max)	60-180 secs	
Average ramp up rate (Liquidus)Temp (T_L) to peak		3°C/second max	
$T_s(max)$ to T_L - Ramp-up Rate		5 C/ 5CCOTTA THAX	
Reflow	Temperature (T _L) (Liquidus)	217℃	
Kellow	Temperature (T_L)	60-150 seconds	
PeakTem	perature (T,)	260+0/-5 °C	
Time within 5°C of actual peak Temperature (tp)		~10 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T₂)		8 minutes max.	
Do not exceed		260°C	



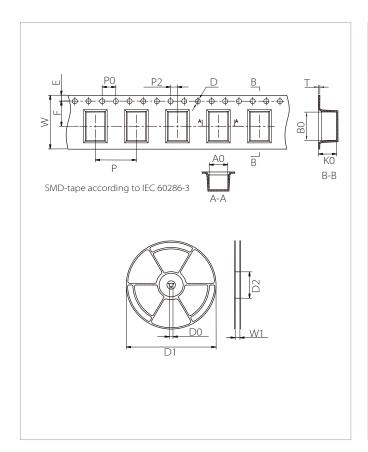
PRODUCT DIMENSIONS AND RECOMMENDED SOLDERING PAD



Kei.	mm
А	0.6±0.1
В	4.2±0.3
С	6.2±0.2
D	6.2±0.2
Е	Ф6±0.1
F	3.5
G	6.8
Н	1.2



TAPE AND REEL SPECIFICATION



	Dimensions		
Ref.	Millimeters	Inches	
W	16±0.3	0.630±0.012	
AO	4.6±0.1	0.181±0.004	
ВО	6.5±0.1	0.256±0.004	
КО	6.7±0.1	0.264±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	D 1.5+0.1/-0.0 0.059+0.004/-		
PO	4±0.1	0.157±0.004	
P2	2±0.1 0.079±0.004		
Т	0.5±0.1 0.020±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
SG2R06B1000A	6.2*6.2*4.2mm	ℯ SG1000 <u>06</u>	800PCS	13"



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