

FEATURES

| Size Design 8.0*8.0*10.0mm

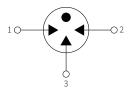
High Current Handling Capability 20000A @ 8/20 μs

Low Capacitance and Insertion Loss

| Quick Response and Long Service Life

| Moisture sensitivity level:Level 1





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	
R	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	Rating	Unit
DC Spark-over Voltage 1)	100V/s	72-108	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤600	V
impuise spark-over voitage	At 1kV/μs	Typical values of distribution ≤550	
Discharge Current (8/20us) 2)	10 times	20	KA
AC Discharge Current	50Hz, 1S	20	А
Minimum Insulation Resistance	Test Voltage DC=100V	1	GΩ
Max. Capacitance 1MHz	V _{DC} =0.5V	2.0	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°C; Time of dip soldering: 10s,1time	

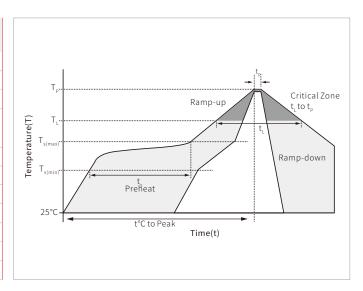
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service

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

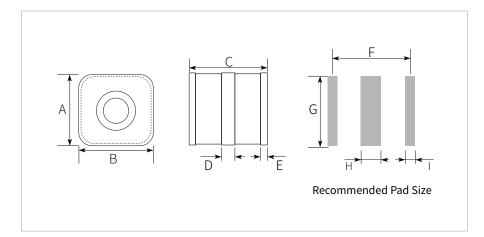


REFLOW PROFILE

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_L - Ramp-up Rate		
Reflow	Temperature (T _∟) (Liquidus)	217°C	
Renow	$Time(min\ to\ max)(t_s)$	60~150 seconds	
Peak Tem	nperature (T₅)	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 (T,)		8 minutes max.	
Do not exceed		260°C	



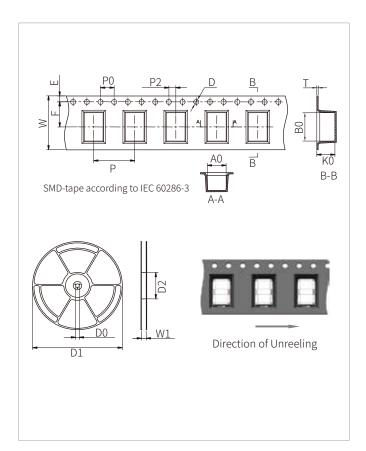
PRODUCT DIMENSIONS



Ref.	Outline Dimensions	
	Millimeters	
А	8.0±0.5	
В	8.0±0.5	
С	10±0.5	
D	1.5±0.2	
E	0.5±0.1	
F	10.0	
G	8.0	
Н	3.0	
I	1.5	



TAPE AND REEL SPECIFICATION



Ref.	Dimensions		
kei.	Millimeters	Inches	
W	16±0.3	0.630±0.012	
A0	5.4±0.1	0.213±0.004	
В0	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/-0.0	
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	QTY/Reel	Reel Size
SG3R08B090C	8.0*8.0*10.0mm	1000PCS	13 "





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By QR Code





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