

FEATURES

| Size Design 3.5*3.5*6.8mm

High Current Handling Capability 6,000A @ 8/20 μs

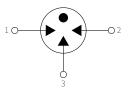
Low Capacitance and Insertion Loss

| 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

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	Symbol	Rating	Unit
DC Blocking Voltage 1)	100V/s	72-108	V
Impulse Spark over Voltage	At 1kV/μs	for 99 % of measured values ≤650	V
Impulse Spark-over Voltage	At 1kV/μs	Typical values of distribution ≤600	V
Impulse Discharge Current 2)	8/20µs	6	KA
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V	≤ 1	pF
Operating and Storage Temperature		-40~90	°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	

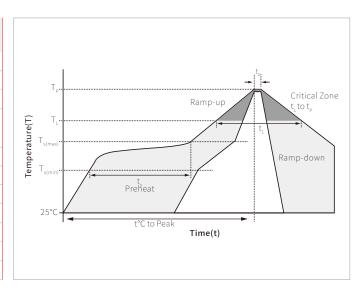
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service

²⁾ Total Currents through center electrode, half value through each Tip electrode

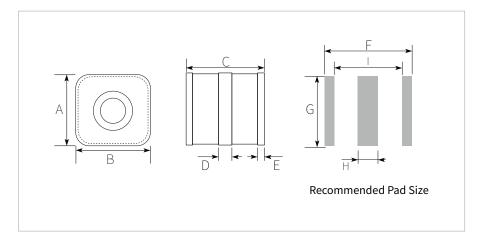


REFLOW PROFILE

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 $T_{\scriptscriptstyle L}$ - Ramp-up Rate		
Reflow	Temperature (T _∟) (Liquidus)	217°C	
Kellow	$Time(mintomax)(t_s)$	60~150 seconds	
Peak Tem	perature (T,)	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	



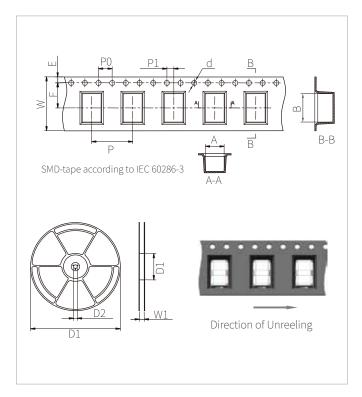
PRODUCT DIMENSIONS



Ref.	Outline Dimensions
	Millimeters
А	3.5±0.2
В	3.5±0.2
С	6.8±0.2
D	1.2±0.1
Е	0.4±0.1
F	Max.8.1
G	Max.2.5
Н	Max.1.8
	Min.6.2



TAPE AND REEL SPECIFICATION



Ref.	Dimensions		
ivei.	Millimeters	Inches	
А	3.9±0.2	0.154±0.008	
В	7.0±0.2	0.276±0.008	
d	Ф1.5±0.1	Ф0.059±0.004	
Е	1.75±0.1	0.069±0.004	
F	7.5±0.1	0.295±0.002	
Р	8.0±0.1	0.315±0.004	
P0	4.0±0.1	0.157±0.004	
P1	2.0±0.1	0.079±0.004	
W	16.0±0.3	0.63±0.012	
D	Ф330.0	Ф13.0	
D1	Ф50Min	Ф1.97Min	
D2	Ф13±0.15	Ф0.512±0.006	
W1	20.8±2.0	0.819±0.079	
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ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
SG3D03B090	3.5*3.5*6.8mm	2500PCS	13 "



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By QR Code





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