

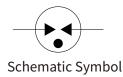
# **FEATURES**

Surface Mounting Design 8.3	*8.3*6.0mm
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- High Current Handling Capability 20000A @ 8/20  $\mu s$
- Low Capacitance and Insertion Loss
- | Quick Response and Long Service Life
- Moisture sensitivity level:Level 1



8.3\*8.3\*6.0mm



# **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		
P	Mean lead free		
IR.	UL Certificated E505857		

# **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	60-90	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values $\leq$ 600	V
impuise spark-over voltage	At 1kV/μs	Typical values of distribution $\leq$ 550	V
Impulse Discharge Current 2)	8/20µs	20000	А
AC Discharge Current	50Hz, 1S, 10times	20	А
Insulation Resistance	DC=25V	≥1	GΩ
Capacitance at 1MHz	V <sub>DC</sub> =0.3V	≤ 1.5	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

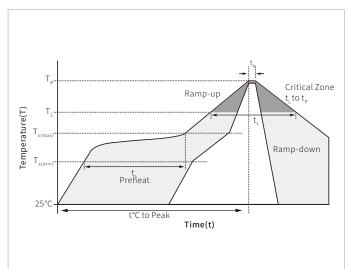
### **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

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

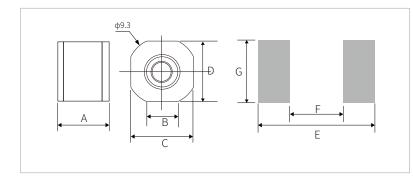
### **REFLOW PROFILE**

	Reflow Condition	Lead-free assembly
	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 $T_s(max)$ to $T_L - Ramp-up Rate$	3°C/second max
Reflow	Temperature (T <sub>L</sub> ) (Liquidus)	217°C
Reliow	Time(min to max)(t <sub>s</sub> )	60 – 150 seconds
Peak Terr	nperature (T <sub>P</sub> )	260 °C
Time within 5°C of actual peak Temperature (tp)		10-30 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T <sub>P</sub> )		8 minutes max.
Do not exceed		260°C



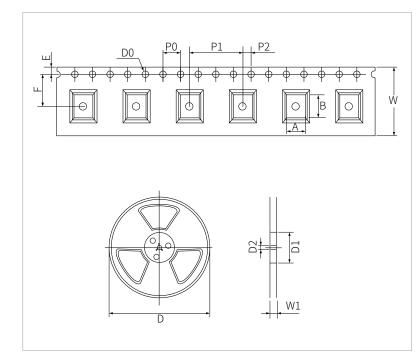


### DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm	
А	6.0±0.2	
В	4.2±0.1	
С	8.3±0.2	
D	8.3±0.2	
E	7.0	
F	4.0	
G	8.0	

### PACKAGE REEL INFORMATION



Ref.	mm	inch
А	6.5±0.1	0.256±0.004
В	8.4±0.1	0.331±0.004
DO	Φ1.5±0.1	Ф0.059±0.004
PO	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	16.5±0.4	0.650±0.016
D	Ф 330.0	Φ13.0
D1	Φ 50Min	Φ 1.97Min
D2	Φ13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

### **ORDERING INFORMATION**

Part Number	Size	QTY/Reel	Reel Size
SG2R09B075	8.3*8.3*6.0mm	600pcs	13"



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#### By QR Code





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