

FEATURES

- | Size Design $\Phi 5.5 \times 6.0 \text{mm}$

- | High Current Handling Capability 5,000A @ 8/20 μs

- | Low Capacitance and Insertion Loss

- | Quick Response and Long Service Life

- | Moisture sensitivity level: Level 1


 $\Phi 5.5 \times 6.0 \text{mm}$

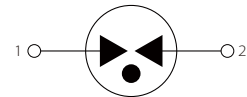
APPLICATION INFORMATION

- | Communication equipment.

- | Repeaters, Modems



- | Telephone Interface, Line cards.

- | Data communication equipment.



Schematic Symbol

AGENCY APPROVALS

Icon	Solderability
RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003
	Mean lead free
	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	Limit	Unit
DC Blocking Voltage 1)2)	100V/s	480-720	V
Impulse Spark-over Voltage	At 1kV/ μ s	for 99% of measured values \leq 1400	V
	At 1kV/ μ s	Typical values of distribution \leq 1300	V
Impulse Discharge Current 3)	8/20 μ s \pm 5times	5	KA
Insulation Resistance	DC=100V	\geq 1	G Ω
Capacitance at 1MHz	V _{DC} =0.5V	\leq 1	pF
Weight		\sim 0.75	g
Operating and Storage Temperature		-40~125	$^{\circ}$ C

1) At delivery AQL 0.65 level II ISO 2859

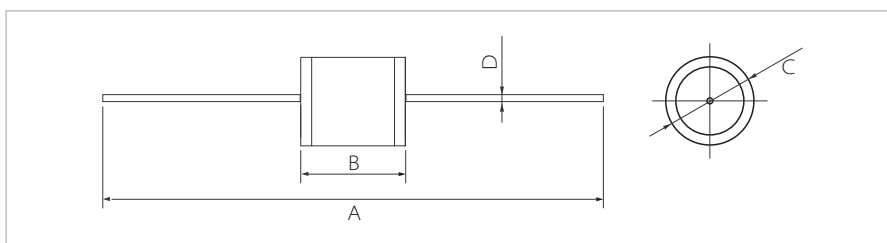
2) In ionized mode

3) 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: 125 $^{\circ}$ C ; Time:2H
Low Temperature Storage Test	Temperature: -40 $^{\circ}$ C ; Time:2H
Vibration	Frequency: 10-500Hz ; Amplitude: 0.15mm ; Time:45min
Resistance of soldering heat	Temperature: 260 \pm 5 $^{\circ}$ C; Time of dip soldering: 10s,1time

PRODUCT DIMENSIONS



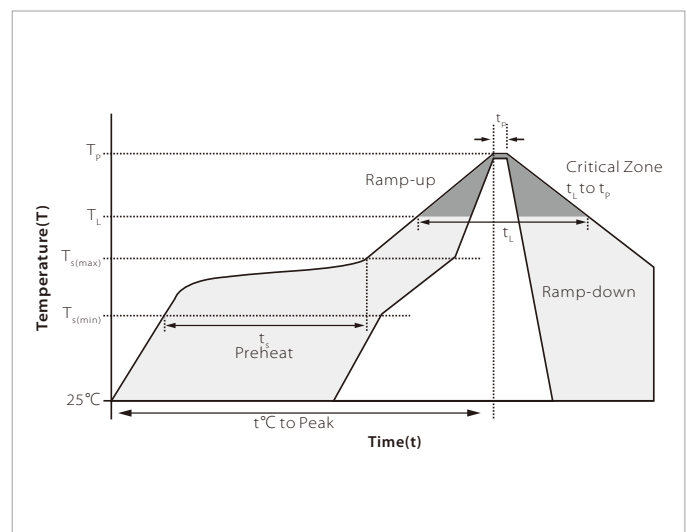
Ref	Outline Dimensions
	Millimeters
A	62 \pm 2
B	6 \pm 0.2
C	Φ 5.5 \pm 0.2
D	Φ 0.8

SOLDERABILITY TEST

Solderability	
Solder Pot Temperature	Solder Dwell Time
245°C ± 5°C	4~6 seconds

REFLOW PROFILE

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Average ramp up rate (Liquidus)Temp (T_L) to peak		3°C/second max
$T_s(\text{max})$ to T_L - Ramp-up Rate		
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)		~10 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes max.
Do not exceed		260°C



ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
SG2R05B600	5.5*6.0mm	1000PCS	13"

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