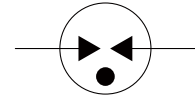


FEATURES

- | Surface Mounting Design $\Phi 11.8 \times 6.2 \text{mm}$
- | High Current Handling Capability 20,000A @ 8/20 μs
- | Low Capacitance and Insertion Loss
- | Quick Response and Long Service Life
- | Moisture sensitivity level: Level 1



$\Phi 11.8 \times 6.2 \text{mm}$



Schematic Symbol

APPLICATION INFORMATION

- | AC-POWER Line&Class II
- | Industrial equipment
- | SPD Module

AGENCY APPROVALS

Icon	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	Rating	Unit
DC breakdown voltage ¹⁾	72-108	V
Impulse breakdown voltage at 1kv/ μ s –For 99% measure values	\leq 650	V
Nominal discharge current 8/20 μ s	In	20
	I _{max}	40
Insulation resistance at DC 50V	\geq 1	G Ω
Capacitance at 1MHz	\leq 4	pF
Storage temperature	40 - +90	°C

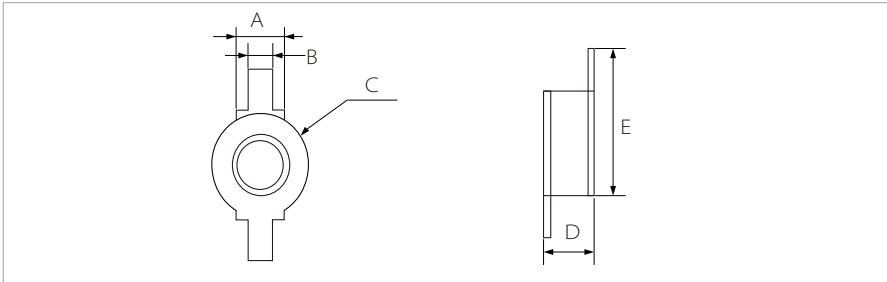
1) DC spark-over voltage >420V after load
 Tests according to IEC61643-311

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 \pm 5°C; Time of dip soldering: 10s, 1time

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

PRODUCT DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	Outline Dimensions
	Millimeters
A	5.8±0.2
B	3±0.2
C	Φ11.8±0.3
D	6.2±0.2
E	16.8±0.5

ORDERING INFORMATION

Part Number	Size	QTY/Box
SG2R12B090B	11.8*6.2mm	100PCS

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By QR Code

Website



Wechat

To find your local partner within Semiware's global network: www.semiware.com

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