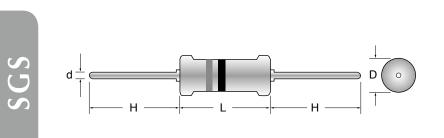
SGS Spark-Gap Surge Absorber



Features

- Low-cost patented construction (EP 09000962.2)
- · No light-dark effect
- Low capacitance / short response time / fast ignition
- Products meet RoHS requirements and do not contain substances of very high concern identified by European **Chemicals Agency**

Applications

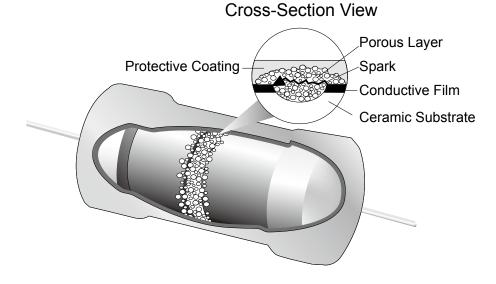
- Telephone/Fax Machine/Modem Protection
- Signal Line Protection

DIMENSIONS

Quality • Reliability

Cost-Down via Innovation

Туре	Body Length	Body Diameter	Lead Wire Length	Lead Wire Diameter	Net Weight
	(L, mm)	(D, mm)	(H, mm)	(d, mm)	Per 1000Pcs
SGS207	6.5 ± 1.0	2.4 ± 0.2	26 ± 3.0	0.55 ± 0.03	220 grams



Legal Disclaimer: This international patent is covered by Paris Convention for the Protection of Industrial Property under World Intellectual Property Organization (WIPO). Breach to the patent right is prohibited.

GENERAL SPECIFICATIONS

Series	Type Name	Color Code	DC spark-over voltage	
	SGS207R	White-Red	1550V ± 30%	
SGS207	SGS207Y	White-Yellow	2300V ± 30%	
	SGS207V	White-Violet	3300V ± 30%	

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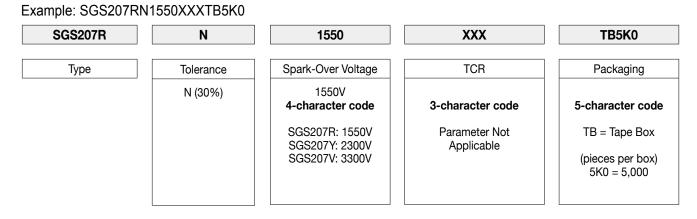


Quality • Reliability

SGS Spark-Gap Surge Absorber

PART NUMBER

Cost-Down via Innovation



TECHNICAL SUMMARY

Characteristics	Limits
Dielectric Withstanding Voltage, VAC or DC	500
Surge Current Capacity	60A @8/20µs (80A @2/10µs)
Operating Temperature Range, °C	-55 ~ + 155
Insulation Resistance, M Ω (Measured with DC 500V)	> 100
Capacitance	≤1pF

PERFORMANCE SPECIFICATIONS

Characteristics	Test Conditions	Limits
Resistance To Soldering Heat	IEC 60115-1 4.18.2 Leads immersed till 3mm from the body in (260±5)°C solder for 10±1 seconds	Rated values 40%
Solderability	IEC 60115-1 4.17.2 Solder area covered after 230±5°C/5+0.5 seconds with flux applied	95% min.coverage
Vibration	IEC 60115-1 4.22 Six hours in each parallel and axial direction with a simple harmonic motion having an amplitude of 1.52mm and 10 to 2,000 Hz.	Rated values still satisfied
Thermal Endurance	IEC 60115-1 4.25.3 1000 hours at 155°C without load	Rated values 40%
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles	Rated values 40%
Surge Life	3000pF/ 10KV/ 0ohm, times = 300	No function failure
Bending strength	Bend lead wire, at a point 5mm apart from the root, parpendicularly to its axis by means of a 2.45N load and restore it. Repeat this step twice and check whether it has any apparent abnomality.	Rated values still satisfied

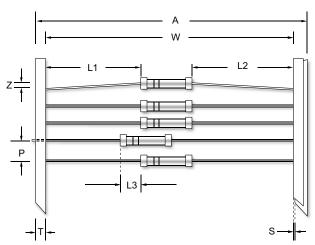
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TAPING/PACKING SPECIFICATIONS



Unit (mm)

Quality • Reliability _____

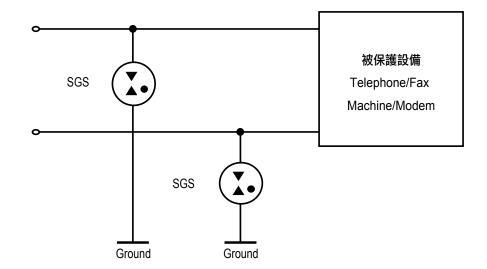
Cost-Down via Innovation

Series	A	L1-L2	L3	Р	S	T	W	Z
	(Max.)	(Max.)	(Max.)	±0.5	(Max.)	±0.5	±1.5	(Max.)
SGS207	65	±1.0	0.5	5.0	0.8	6.0	52.5	1

Туре	Packing Type	Minimum Packing QTY (pcs)	
SGS207	Ammo Pack	5000	

APPLICATIONS

Telephone/Fax Machine/Modem Protection (common-mode protection)



These SGS absorbers protect against common-mode interference voltages, i.e. surge voltages that appear in both exchange lines connecting to the ground. In the event of voltage overload, the SGS protects both exchange lines by conducting the surge current away to the ground.

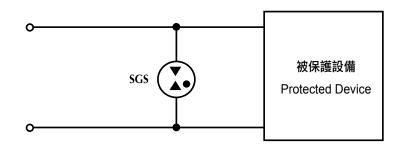
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SGS Spark-Gap Surge Absorber

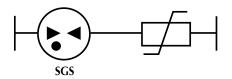
APPLICATIONS

Signal Line Protection (differential-mode protection)



Signal circuits often run with no ground conductor. A SGS circuit located between the two signal lines offers differential mode protection by preventing the occurrence of large potential difference at the input of the equipment to be protected

Series of Spark-Gap Surge Absorber (SGS) and Metal-Oxide Varistor (MOV)



Benefits:

1. Capacitance of this branch circuit would be reduced to pF level.

2. MOV has almost no current leakage.

3. MOV aging-related issue would be greatly improved,, increasing reliability of the circuit.