

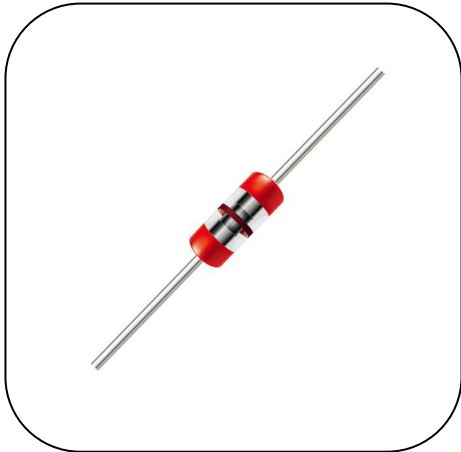
Spark Gap Protector: SPG Series

Axial Leadwire Type $\Phi 2.6 \times 6.5 \text{mm}$



■ Features

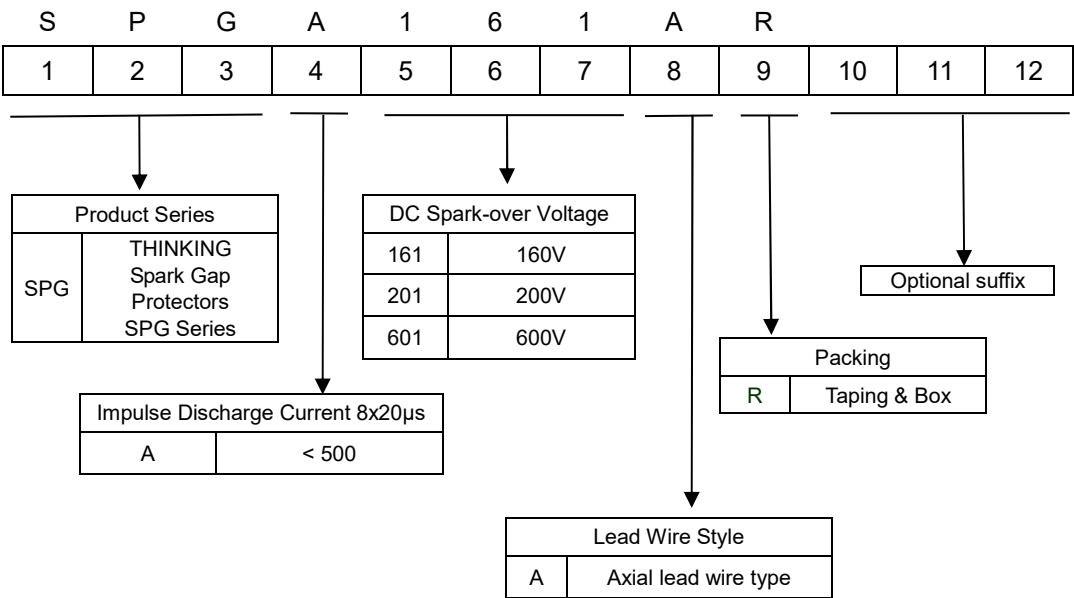
- 1. Small size
- 2. RoHS compliant and halogen-free
- 3. Fast response time
- 4. Low electrode capacitance (1pF) and high isolation (100MΩ)



■ Recommended Applications

- 1. Telephone, Fax, Modem
- 2. Power supplies
- 3. High frequency signal transmitters/receivers
- 4. Satellite antenna
- 5. Radio amplifiers
- 6. Alarm systems

■ Part Number Code



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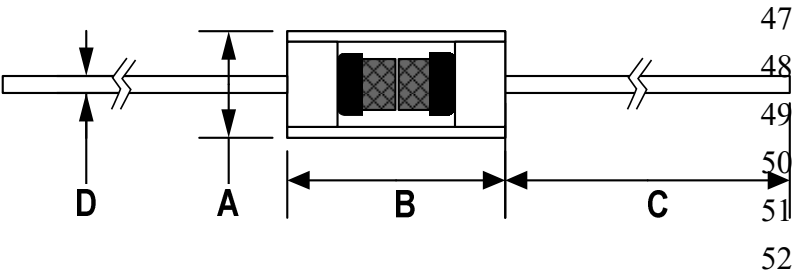


Structures and Dimensions

SPGA Series

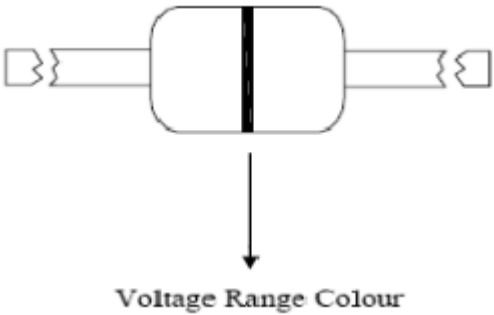
Unit: mm

Item	Spec	Tolerance
A	$\Phi 2.6$	± 0.5
B	6.5	± 0.5
C	28.5	± 3
D	$\Phi 0.5$	± 0.05



Marking

- Color Code
- Low-Voltage Series



Type	Voltage Range Color
SPGA-161	Brown
SPGA-201	Red
SPGA-301	Orange
SPGA-401	Yellow
SPGA-501	Green
SPGA-601	Blue

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■ Electrical Characteristics

THINKING Part No.	DC Spark-over Voltage	Impulse Withstanding Voltage Capacity	Min. Insulation Resistance		Max. Capacitance
	100V/S	10x700 μ s	IR	DC	1KHz
	(V)	(KV)	(M Ω)	(V)	(PF)
SPGA161AR	160 $\pm$ 30%	2	100	50	1.0
SPGA201AR	200 $\pm$ 20%	2	100	100	1.0
SPGA301AR	300 $\pm$ 20%	2	100	100	1.0
SPGA401AR	400 $\pm$ 20%	2	100	250	1.0
SPGA501AR	500 $\pm$ 20%	2	100	250	1.0
SPGA601AR	600 $\pm$ 20%	2	100	250	1.0

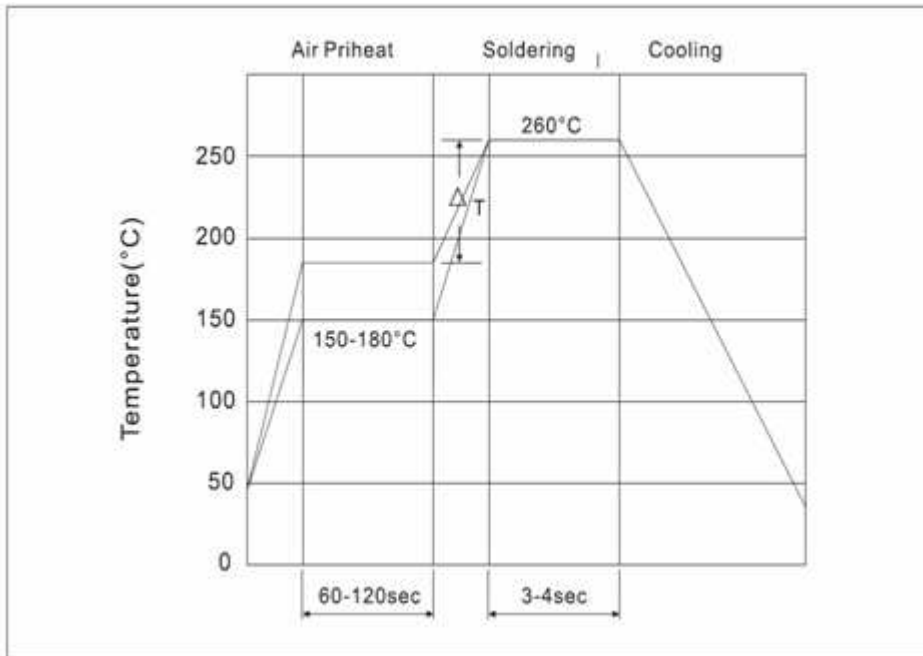
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■ Soldering Recommendation

● Wave Soldering Profile



● Recommended Reworking Conditions with Soldering Iron :

Item	Conditions
Temperature of Soldering Iron-tip	$350 \pm 5^{\circ}\text{C}$
Soldering Time	3 sec. (max.)

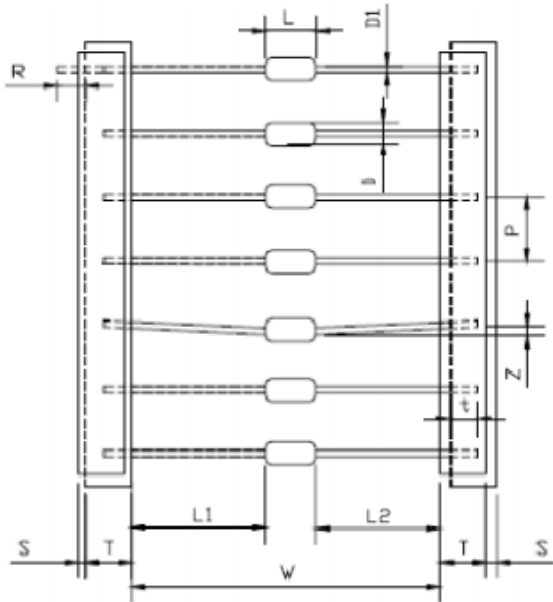
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■ Packaging

- Reel Taping : 2000pcs / Inner Box



Symbol	Dimension (mm)
W	52 ± 1.5
P	5.0 ± 0.5
L1-L2	1Max
T	6.0 ± 1.0
Z	1.2Max
R	Terminal must not project from tape
t	3.2Max
s	0.8Max
D1	$\Phi 0.5 \pm 0.05$
L	7Max

■ Warehouse Storage Conditions of Product

- Storage Condition:
 - 1.Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
 - 2.Operating Temperature: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
 - 3.Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 2 years