



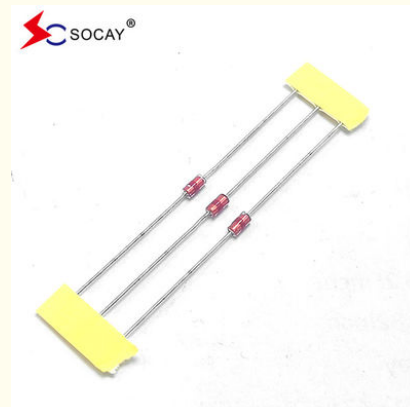
Axial Lead Glass Discharge Tube SCA-141N 1.0pF 8/20μS 500A Spark Gap Protectors

Our Product Introduction

for more products please visit us on socaydiode.com

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SCA-141N
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Packaging Details: AMMO packing bulk
- Delivery Time: 1-2weeks



Product Specification

- Key Word: Spark Gap Arrester
- Shape: Axial Lead
- VS: 140(98~182)V
- IR/DC: 100M/50V
- C: 1.0pF
- 8/20μS: 500A
- Surge Life Test: 10KV / 100A , >200T
- Highlight: **Glass Discharge Tube 500A,
1.0pF Glass Discharge Tube**



More Images



Product Description

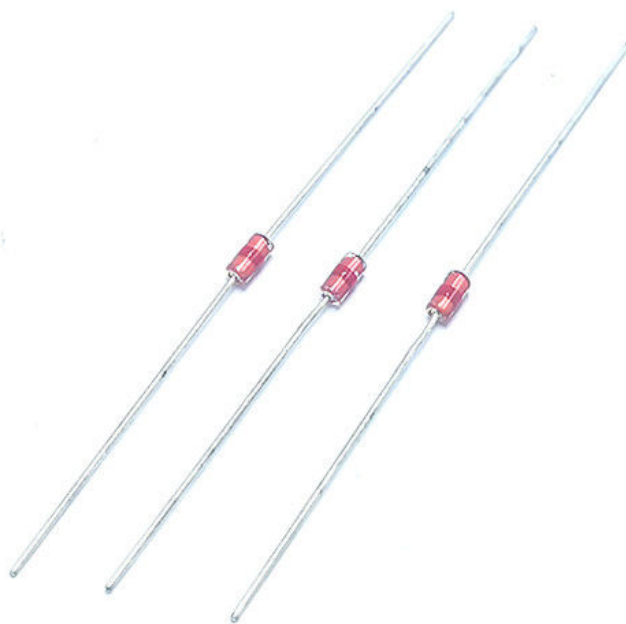
Axial Lead Spark Gap Protectors (SPG) SCA-141N Vs 140(98~182)V 1.0pF @8/20μS 500A

DATASHEET: [SCA_v2204.1.pdf](#)

Description

SPG like Gas discharge tube, its use of glass packaging, its main features are: small volume, small electrode capacitance, high insulation resistance, breakdown voltage optional range, slow reaction speed (high residual voltage).

Part Number	DC Spark-over Voltage Vs(V)	Minimum Insulation Resistance IR(OHM)/DC	Maximum Capacitance 1KHZ-6Vmax C (pF)	Surge Current Capacity 8/20 μS	Surge Life Test
SCA-141N	140(98~182)	100M / 50V	1.0	500A	10KV / 100A , >200T
SCA-201M	200(160~240)	100M / 100V	1.0	500A	10KV / 100A , >200T
SCA-301M	300(240~360)	100M / 100V	1.0	500A	10KV / 100A , >200T
SCA-401M	400(320~480)	100M / 250V	1.0	500A	10KV / 100A , >200T
SCA-501M	500(400~600)	100M / 250V	1.0	500A	10KV / 100A , >200T
SCA-601M	600(480~720)	100M / 250V	1.0	500A	10KV / 100A , >200T
SCA-102M	1000(800~1200)	100M / 500V	1.0	500A	10KV / 100A , >200T



Features:

- u Approximately zero leaking current before clamping voltage
- u Less decay at on/off state.
- u High capability to withstand repeated lightning strikes.
- u Low electrode capacitance ($\leq 1.0\text{pF}$) and high isolation ($\geq 100\text{M}\Omega$).
- u RoHS compliant.
- u Bilateral symmetrical.
- u Temperature, humidity and lightness insensitive.
- u Working temperature: $-45 \sim +85$
- u Storage temperature: $-45 \sim +85$
- u Meets MSL level 1, per J-STD-020

Working Principle

In parallel on the circuit, when the device does not operate, the resistance value is high ($G\Omega$), low equivalent capacitance can be regarded as open circuit, almost no impact on the circuit. When there is an abnormal pulse, the internal resistance drops instantaneously after reaching the operating voltage value, and the current is released instantaneously. When the abnormal high voltage disappears, it returns to the high resistance state, and the circuit works normally.

Applications:

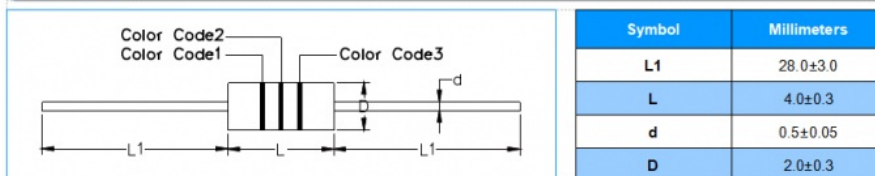
All kinds of power products,
isolators, inverters, medical equipment,
485 converter, communication products,
security products.

Part Number	Color Code1	Color Code2	Color Code3
SCA-141N	Yellow	Black	-
SCA-201M	Red	-	-
SCA-301M	Orange	-	-
SCA-401M	Yellow	-	-
SCA-501M	Green	-	-
SCA-601M	Blue	-	-
SCA-102M	Black	-	-

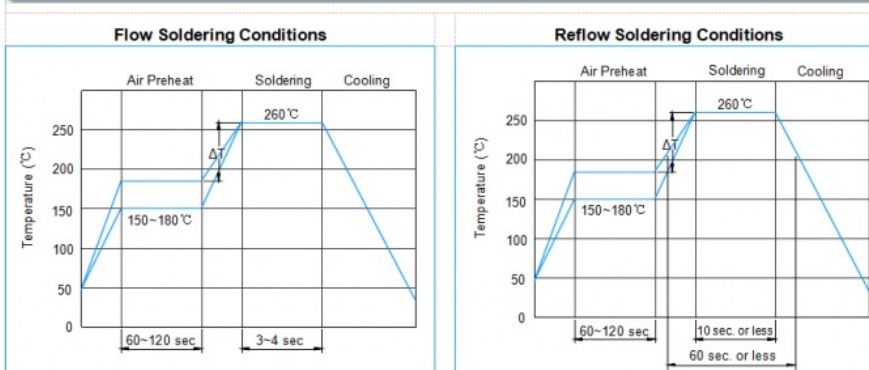
Hand Soldering

Solder iron temperature: 350 ± 5
Heating time: 3 seconds max.

Dimensions

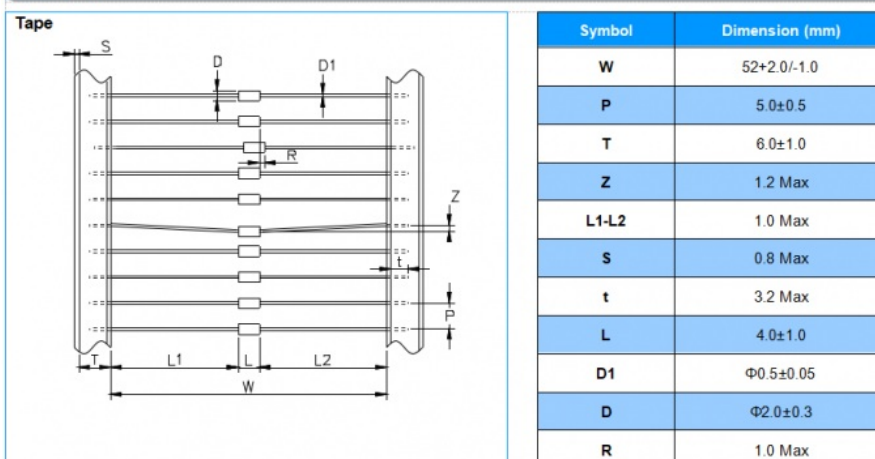


Recommended Soldering Conditions



- 1) Time shown in the above figures is measured from the point when chip surface reaches temperature.
- 2) Temperature difference in high temperature part should be within 110°C .
- 3) After soldering, do not force cool, allow the parts to cool gradually.

Packaging



Q1. Can I have a sample order ?

A: Yes, we welcome sample order to test and check quality. Mixed samples are acceptable.

Q2. What about the lead time?

A: Sample needs 1 days, mass production time needs 1-2 weeks for order quantity more than

Q3. Do you have any MOQ ?

A: MOQ depend on the type of product, 1pc for sample checking is available

Q4. How do you ship the goods and how long does it take to arrive?

A: We usually ship by DHL, UPS, FedEx or TNT. It usually takes 3-5 days to arrive. Airline and sea shipping also optional.

Q5. How to proceed an order ?

A: Firstly let us know your requirements or application.

Secondly We quote according to your requirements or our suggestions.

Thirdly customer confirms the samples and places deposit for formal order.

Fourthly We arrange the production.



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