

SMD Spark Gap Protectors SPG 1000A 100M/50V SOCAY SCB-141N-SMD

Shenzhen, Guangdong, China

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price: Neg
- Delivery Time:



SOCAY

REACH, RoHS, ISO

SCB-141N-SMD



Product Specification

- Item:
- Package Size:
- VS:
- IR/DC:
- C:
- 8/20µS:
- Surge Life Test:
- Highlight:

| Spark Gap Protectors |
|----------------------|
| SMD |
| 140(119~221)V |
| 100M/50V |
| 1.0pF |
| 1000A |
| 10KV / 150A , >200T |

Spark Gap Protectors SPG, SMD Spark Gap Protectors





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Product Description

SOCAY SCB-141N-SMD SMD Spark Gap Protectors (SPG) 1000A @8/20µS IR/DC 100M/50V

DATASHEET: <u>SCB-SMD_v2204.1.pdf</u>

| Part Number | DC Spark-over Voltage Vs(V) | Minimum Insulation Resistance IR(OHM)/DC | Maximum Capacitanc e 1KHZ- 6Vmax C (pF) | Surge Current Capacity 8/20 µS | Surge Life Test |
|--------------|-----------------------------------|---|--|---|------------------------|
| SCB-141N-SMD | 140(98~182) | 100M / 50V | 1.0 | 1000A | 10KV / 150A, >200T |
| SCB-181N-SMD | 180(126~234) | 100M / 50V | 1.0 | 1000A | 10KV / 150A , >200T |
| SCB-201M-SMD | 200(160~240) | 100M /100V | 1.0 | 1000A | 10KV / 150A, >200T |
| SCB-301M-SMD | 300(240~360) | 100M /100V | 1.0 | 1000A | 10KV / 150A , >200T |
| SCB-401M-SMD | 400(320~480) | 100M / 250V | 1.0 | 1000A | 10KV / 150A , >200T |
| SCB-501M-SMD | 500(400~600) | 100M / 250V | 1.0 | 1000A | 10KV / 150A , >200T |





I.Selection method /Model Name

To know the customer's operating voltage, product, application port, protection level.
Minimum DC breakdown voltage > 1.2 times the normal DC operating voltage.
Select the package, size and flow rate of the device according to the application port and protection level.

Applications:

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

Items

Test Method

Standard

| DC Spark-over Voltage | Measure starting discharge voltage (Vs) by gradually increasing applied DC voltage. Test current is 0.5mA max. And the DC voltage ascends up within 100V/s(Vs 1000V) or 500V/s(Vs≥1000V). | Rate-of-change, within±30% | |
|---------------------------|---|--|--|
| Insulation Resistance | Measure the insulation resistance across the terminal at regular voltage. But the test voltage doesn't over the DC spark-over voltage. | capacitance, conformed to rated spec. | |
| Capacitance | Measure the electrostatic capacitance by applying a voltage of less than 6V (at 1KHz) between terminals. | | |
| Static Life | 10KV with 1500pf condenser is discharged through $2K\Omega$ resistor. 200 times at an interval of 10sec. | ∆Vs/Vs ≤30% Characteristics of other items must meet the specified value | |
| Surge Current Capacity | 1.2/50 μ s & 8/20 μ s, 1000A, electrically connected with a resistor (1~2 Ω), ±5 times, each time interval 60 seconds. Thereafter, outer appearance shall be visually examined. | No crack and no failures | |
| Cold Resistance | Measurement after -40 /1000 HRS & normal temperature/2 HRS. | | |
| Heat Resistance | Measurement after 125 /1000 HRS & normal temperature/2 HRS. | | |
| Humidity Resistance | Measurement after humidity 90~95 (45) /1000 HRS & normal temperature/2 HRS. | Features are conformed to rated spec | |
| Temperature Cycle | 10 times repetition of cycle -40 /30min → normal, temp/2 min →125 /30min, measurement after normal temp/2 HRS. | | |
| Solder Ability | Apply flux and immerse in molten solder 230±5 for 3sec up to the point of 1.5mm from body. Check for solder adhesion. | Lead wire is evenly covered by solder | |
| Solder Heat | Measurement after lead wire is dipped up to the point of 1.5mm from body into 260±5 solder for 10sec | Conformed to rated spec | |
| Pull Strength | Apply 0.5kg load for 10sec | | |
| Flexural Strength | Bend lead wire at the point of 2mm from body under 0.25 load and back to its original point. Repeat 1 time. | Lead shall not pull out to snap | |



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SOCAY's main products include a full range of Ceramic Gas Discharge Tubes (GDT), Transient Suppression Diodes (TVS Diodes), ESD Suppressor, Thyristor Surge Suppressors (TSS), Spark Gap Protectors (SPG), Varistors (MOV), Chip Varistors (MLV), PTC Resettable Fuse, Negative Temperature Coefficient thermistors (NTC Thermistors), Chip Bead, Schottky Diodes, Zener Diode, etc. From circuit design to product testing (and provide test reports), we will provide you with one-stop services in the field of circuit protection. With excellent quality and service, SOCAY has won extensive praise from customers and respect from the industry.

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