

## SOCAY Multifuse PPTC Resettable Fuse SC135-2500CZ0D Radial Lead Resettable Polymer PTCs

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL,REACH,RoHS,ISO
- Model Number: SC135-2500CZ0D
- Minimum Order Quantity: 5000pcs
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Component Name: PPTC Resettable Fuse
- Package: Radial Lead
- I Hold: 2.5A
- I Trip: 5.0A
- V Max: 120Vdc
- I Max: 20A
- P Dtyp.: 2.0W
- Current: 12.5A
- Time: 35.0S
- R Min: 0.075Ω
- R1 Max: 0.24Ω

## Product Description

### SOCAY Multifuse PPTC Resettable Fuse SC135-2500CZ0D Radial Lead Resettable Polymer PTCs PPTC Resettable Fuse DATASHEET:SC135-2500CZ0D\_v207.1 .pdf

#### Product Description:

The PPTC Resettable Fuse is a Surface Mount Time component that functions by using a polymer-based material. This material has the ability to change its resistance from low to high when exposed to high levels of current, which in turn limits the current flow and provides protection to the device.

Our Radial Leaded PPTC Resettable Fuse has a trip current of 5A, ensuring that it provides a fast response to any overcurrent situation, and has a quick recovery time to ensure the device can continue to function as expected. The Radial Lead package provides easy installation and allows for effective heat dissipation, which further enhances the safety and efficiency of the device.

Whether you are designing a new product or looking to upgrade the protection features of an existing device, the Radial Lead PPTC Resettable Fuse is the ideal choice. With its high trip current, quick recovery time, and easy installation, this fuse provides reliable and efficient protection for your device.

#### Features:

Product Name: PPTC Resettable Fuse

RoHS Compliant and Halogen-Free

Radial leaded Devices Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements

Operation Current: 2.5 A, Maximum Voltage: 120 Vdc, Operating Temperature: -40 to +85

#### Technical Parameters:

| Component Name | PPTC Resettable Fuse |
|----------------|----------------------|
| I hold         | 2.5A                 |
| I trip         | 5.0A                 |
| V max          | 120Vdc               |
| I max          | 20A                  |
| P dtyp.        | 2.0W                 |
| Current        | 12.5A                |
| Time           | 35.0S                |
| Rmin           | 0.075Ω               |
| R1 max         | 0.24Ω                |

#### Electrical Parameters

| Part Number    | I hold (A) | I trip (A) | V max (Vdc) | I max (A) | P dtyp (W) | Maximum Time To Trip |          | Resistance |            |
|----------------|------------|------------|-------------|-----------|------------|----------------------|----------|------------|------------|
|                |            |            |             |           |            | Current (A)          | Time (s) | R min (Ω)  | R1 max (Ω) |
| SC135-2500CZ0D | 2.5        | 5.0        | 120         | 20        | 2.0        | 12.5                 | 35.0     | 0.075      | 0.24       |

I hold= Hold current: maximum current at which the device will not trip at 25°C still air.

I trip= Trip current: minimum current at which the device will always at 25°C still air.

V max= Maximum voltage device can withstand without damage at rated current.

I max= Maximum fault current device can withstand without damage at rated voltage.

T trip=Maximum time to trip(s) at assigned current.

P dtyp= Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

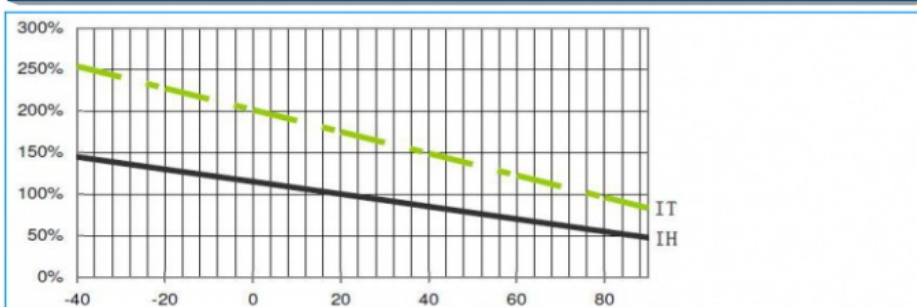
R min= Minimum device resistance at 25°C prior to tripping.

R max= Maximum device resistance at 25°C prior to tripping.

R1 max= Maximum resistance of device at 25°C measured one hour after tripping.

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

#### Temperature Derating Curve



## Applications:

The SC135-2500CZ0D is suitable for a wide range of product application occasions and scenarios. It can be used in power supplies, computers, telecommunications, consumer electronics, and automotive electronics. This Radial Lead PPTC Resettable Fuse is also suitable for battery chargers, portable devices, and LCD/LED displays.

Overall, the SC135-2500CZ0D is a reliable and cost-effective solution for your PPTC Resettable Fuse needs. Its high-quality standards, along with its versatility in application, make it an excellent choice for electronics manufacturers.

### Test Procedures and Requirement

| Test            | Test Conditions                              | Accept/Reject Criteria               |
|-----------------|----------------------------------------------|--------------------------------------|
| Resistance      | In still air @25±2°C                         | $R_{min} \leq R \leq R_{max}$        |
| Hold Current    | 60 min, at $I_{hold}$ , In still air @25±2°C | No trip                              |
| Time to Trip    | Specified current, $V_{max}$ , @25±2°C       | $T \leq \text{Maximum Time To Trip}$ |
| Trip Cycle Life | $V_{max}$ , $I_{max}$ , 100 cycles           | No arcing or burning                 |
| Trip Endurance  | $V_{max}$ , 24 hours                         | No arcing or burning                 |

## FAQ:

**Q1. What is the brand name of the PPTC Resettable Fuse product?**

A1. The brand name of the PPTC Resettable Fuse product is SOCAY.

**Q2. What is the model number of the PPTC Resettable Fuse product?**

A2. The model number of the PPTC Resettable Fuse product is SC135-2500CZ0D.

**Q3. Where is the PPTC Resettable Fuse product manufactured?**

A3. The PPTC Resettable Fuse product is manufactured in Shenzhen, Guangdong, China.

**Q4. What certifications does the PPTC Resettable Fuse product have?**

A4. The PPTC Resettable Fuse product has UL, REACH, RoHS, and ISO certifications.

**Q5. What is the minimum order quantity for the PPTC Resettable Fuse product?**

A5. The minimum order quantity for the PPTC Resettable Fuse product is 5000pcs.

**Q6. What is the price of the PPTC Resettable Fuse product?**

A6. The price of the PPTC Resettable Fuse product is negotiable.

**Q7. What is the delivery time for the PPTC Resettable Fuse product?**

A7. The delivery time for the PPTC Resettable Fuse product is 5-8 work days.



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