



## Radial Lead PPTC Resettable Fuse SC60-090CW0D I hold 0.9A Maximum Voltage 60Vdc

Our Product Introduction

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SC60-090CW0D
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Component Name: PPTC Resettable Fuse
- Package: Radial Lead
- I Hold: 0.9A
- I Trip: 1.8A
- V Max: 60V
- I Max: 40A
- P Dtyp.: 1.0W
- Maximum Time To Trip Current: 4.5A
- Maximum Time To Trip Time: 10.0Sec
- Resistance Min: 0.2Ω
- Resistance Max: 0.31Ω
- Resistance 1max: 0.47Ω
- Highlight: Radial Lead PPTC Resettable Fuse, PPTC Resettable Fuse 60VDC



### More Images



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## Product Description

**Radial Lead PPTC Resettable Fuse SC60-090CW0D I hold 0.9A Maximum Voltage 60Vdc**

**PPTC Resettable Fuse DATASHEET: [SC60-090CW0D\\_v96.2.pdf](#)**

### Selection methods

- 1, I<sub>hold</sub> value (holding current) > normal working current in the circuit V<sub>max</sub> ≥ normal voltage in the circuit, ambient temperature.
- 2, Customer operating current divided by temperature coefficient ≤ product operating current.

### Electrical Parameters:

| Part Number          | I <sub>hold</sub> (A) | I <sub>trip</sub> (A) | V <sub>max</sub> (Vdc) | I <sub>max</sub> (A) | P <sub>dtyp</sub> (W) | Maximum Time To Trip |          | Resistance           |                      |                       |
|----------------------|-----------------------|-----------------------|------------------------|----------------------|-----------------------|----------------------|----------|----------------------|----------------------|-----------------------|
| PPTC Resettable Fuse |                       |                       |                        |                      |                       | Current (A)          | Time (S) | R <sub>min</sub> (Ω) | R <sub>max</sub> (Ω) | R <sub>1max</sub> (Ω) |
| SC60-090CW0D         | 0.90                  | 1.80                  | 60                     | 40                   | 1.00                  | 4.5                  | 10.0     | 0.20                 | 0.31                 | 0.47                  |

### Features of PPTC polymer positive temperature coefficient thermistor (resettable fuse)

- > Sensitive to current and temperature, resistance increases as temperature and current increase;
- > The response speed of PPTC polymer positive temperature coefficient thermistor (resettable fuse) is slow, generally tens of milliseconds or even seconds, and the current does not flow through the PPTC polymer positive temperature coefficient thermistor (resettable fuse). related;
- > It has self-restoring characteristics and can be repeatedly used in circuits within its rated use range;
- > PPTC polymer positive temperature coefficient thermistor (resettable fuse) has a low resistance value under normal working conditions of the circuit and has almost no impact on the circuit;
- > When used, PPTC polymer positive temperature coefficient thermistor (resettable fuse) is connected in series in the circuit;
- > Our PPTC polymer positive temperature coefficient thermistor (resettable fuse) product maintains a current of 30mA~14A and a maximum withstand voltage of 5V~600V.

### PPTC Resettable Fuse Applications:

- u USB hubs, ports and peripherals
- u Power ports
- u IEEE1394 ports
- u Motor protection
- u Computers and peripherals
- u General electronics

### Temperature Derating Chart – I<sub>hold</sub> (A):

| Ambient Operation Temperature | -40  | -20  | 0    | 23   | 30  | 40  | 50  | 60  | 70  | 85  |
|-------------------------------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| Percentage Reduction          | 145% | 130% | 120% | 100% | 95% | 88% | 80% | 71% | 66% | 56% |

### Test Procedures and Requirement:

| Test            | Test Conditions                                     | Accept/Reject Criteria                  |
|-----------------|-----------------------------------------------------|-----------------------------------------|
| Resistance      | In still air @25±2°C                                | R <sub>min</sub> ≤ R ≤ R <sub>max</sub> |
| Hold Current    | 60 min, at I <sub>hold</sub> , In still air @25±2°C | No trip                                 |
| Time to Trip    | Specified current, V <sub>max</sub> , @25±2°C       | T ≤ Maximum Time To Trip                |
| Trip Cycle Life | V <sub>max</sub> , I <sub>max</sub> , 100 cycles    | No arcing or burning                    |
| Trip Endurance  | V <sub>max</sub> , 24 hours                         | No arcing or burning                    |

### PPTC Resettable Fuse Physical Specifications:

|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| Lead Material             | 0.03-1.85A Tin-plated Copper clad steel<br>2.50-5.00A Tin-plated Copper |
| Soldering Characteristics | Solder ability per MIL-STD-202, Method 208E                             |
| Insulating Material       | Cured, flame retardant epoxy polymer meets UL 94V-0 requirements.       |
| Device Labeling           | Marked with 'SC', voltage, current rating                               |

### PPTC Resettable Fuse Packaging Quantity:

| Part Number  | Quantity (pcs/reel) |
|--------------|---------------------|
| SC60-090CW0D | 1000                |



#### Applications

Digital products, Cameras, Mobile phones, Photo frames, Control panels, Toys, LCDs, Power supplies, Communication equipment, Security products, Audio, Converters. It is used in almost all low-voltage power supply products, and lightning protection packages, etc.

