

## SC600 Series Electronic PPTC Resettable Fuse SC600-200SW0D 400V Maximum Voltage

Our Product Introduction

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SC600-200SW0D
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Name: PPTC Resettable Fuse
- Package Type: Radial Lead
- Operation Current: 0.2A
- I Trip: 0.4A
- Maximum Voltage: 400V
- I Max: 3A
- P Dtyp.: 1.5W
- Maximum Time To Trip Current: 1.0A
- Maximum Time To Trip Time: 10.0Sec
- Resistance Min: 5.0Ω
- Resistance Max: 9.0Ω
- Resistance 1max: 14.0Ω
- Highlight: **PPTC Resettable Fuse 400V ,  
Electronic PPTC Resettable Fuse,**



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## Product Description

### SC600 Series PPTC Resettable Fuse SC600-200SW0D Fast Delivery Time

**PPTC Resettable Fuse DATASHEET: [SC600-200SW0D\\_v98.1.pdf](#)**

#### Electrical Parameters:

| Part Number                | $I_{hold}$<br>(A) | $I_{trip}$<br>(A) | $V_{max}$<br>(Vdc) | $I_{max}$<br>(A) | $P_{dtyp}$<br>(W) | Maximum Time<br>To Trip |             | Resistance                |                           |                            |
|----------------------------|-------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------|---------------------------|---------------------------|----------------------------|
| Resettable<br>Polymer PPTC |                   |                   |                    |                  |                   | Current<br>(A)          | Time<br>(S) | $R_{min}$<br>( $\Omega$ ) | $R_{max}$<br>( $\Omega$ ) | $R1_{max}$<br>( $\Omega$ ) |
| SC600-<br>200SW0D          | 0.20              | 0.40              | 400                | 3.0              | 1.5               | 1.0                     | 10.0        | 5.0                       | 9.0                       | 14.0                       |

$I_{hold}$  = PPTC Resettable Fuse Hold current: maximum current at which the device will not trip at 25 still air.  
 $I_{trip}$  = PPTC Resettable Fuse Trip current: minimum current at which the device will always at 25 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.  
 $R_{min}$  = PPTC Resettable Fuse Minimum device resistance at 25 prior to tripping.  
 $R_{max}$  = Maximum device resistance at 25 prior to tripping.  
 $R1_{max}$  = Maximum resistance of device at 25 measured one hour after tripping.  
 Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

#### PPTC Resettable Fuse Features:

- u RoHS Compliant and Halogen-Free
- u Radial leaded Devices
- u Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- u PPTC Resettable Fuse Operation Current: 0.20A, Maximum Voltage: 400Vdc, Operating Temperature: -40 to +85

#### 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 – $I_{hold}$ (A):

| Ambient Operation<br>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                         | $R_{min} \leq R \leq R_{max}$        |
| 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                 |

#### 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) |
|---------------|---------------------|
| SC600-200SW0D | 500                 |



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