



## SOCAY PPTC Fuse Radial Lead Resettable Polymer PTCs SC60-017CW0D With Polymer Technology

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: SC60-017CW0D
- Minimum Order Quantity: 5000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Component Name: PPTC Resettable Fuse
- Package: Radial Lead
- I Hold: 0.17A
- I Trip: 0.34A
- V Max: 60Vdc
- I Max: 40A
- P Dtyp.: 0.6W
- Current: 0.85A
- Time: 10.0S
- R Min: 2.0Ω
- R Max: 3.2Ω
- R1 Max: 5.0Ω
- Highlight: Resettable PPTC fuse, Radial Lead PPTC fuse

## Product Description

### SOCAY PPTC FuseRadial Lead Resettable Polymer PTCs SC60-017CW0D With Polymer Technology

**PPTC Resettable Fuse DATASHEET:** [SC60-017CW0D\\_v96.2.pdf](#)

#### Product Description:

This fuse is capable of handling currents ranging from 0.17A to 3.4A, making it suitable for a wide range of applications. Whether you are working with low-power circuits or higher-power applications, this fuse is capable of protecting your devices from overcurrent events. The surface mount design of this fuse makes it easy to install in a variety of applications. Whether you are working with a small circuit board or a larger electronic device, this fuse can be easily integrated into your design.

The P dtyp. of this fuse is multifuse, which means that it is capable of providing protection against multiple overcurrent events. This makes it a reliable option for protecting against short circuits, overloads, and other types of overcurrent events.

The maximum voltage rating of this PPTC Polymer fuse is designed to provide an extra level of protection for your electronic devices. Whether you are working with sensitive electronics or more robust applications, this fuse is capable of providing a high level of protection against overcurrent events.

Overall, if you are looking for a reliable and effective way to protect your electronic devices from overcurrent events, the Radial Lead PPTC Resettable Fuse is an excellent choice. With its wide range of current handling capabilities, easy installation, and multifuse protection, this fuse is capable of providing a high level of protection for your electronic devices.

#### Features:

PPTC working principle: when there is an abnormal current through the PPTC, the heat generated ( $I^2R$ ) so that the polymer matrix material expansion, wrapped in the polymer matrix material outside the conductive particles will be separated, thus cutting off the conductive channel of the PPTC so that the PPTC resistance rises, thus reducing the abnormal current. When the abnormal overcurrent disappears, the PPTC polymer matrix material shrinks to its original shape and reconnects the conductive particles, and the conductive channel is restored to its original low-resistance state.

##### Features

- ◆ RoHS Compliant and Halogen-Free
- ◆ Radial leaded Devices
- ◆ Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 0.17A, Maximum Voltage: 60Vdc, Operating Temperature: -40°C to +85°C

#### Technical Parameters:

I hold	0.17A
I trip	0.34A
V max	60Vdc
I max	40.0A
P dtyp.	0.6W
Maximum Time To Trip Current	0.85A
Maximum Time To Trip Time	10.0S
R min	2.0Ω
R max	3.2Ω
R1 max	5.0Ω

##### 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)	R max (Ω)	R1 max (Ω)
SC60-017CW0D	0.17	0.34	60	40	0.60	0.85	10.0	2.00	3.20	5.00

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.

## Applications:

One common use for the SC60 is in power supplies and battery packs. The fuse can be placed in series with the power source to protect against short circuits and other faults. Another application is in motor control circuits, where the fuse can protect against overcurrent events that can damage the motor or other components.

The SC60 is also ideal for use in LED lighting systems. Many LED drivers require a fuse to protect against faults, and the SC60's surface mount design makes it easy to integrate into the circuit board. In addition, the resettable nature of the fuse means that it will not need to be replaced after a fault has occurred.

Another application for the SC60 is in automotive electronics. The fuse can be used in a variety of circuits, including power distribution, lighting, and audio systems. The resettable nature of the fuse is particularly useful in automotive applications, as it can help to reduce downtime and maintenance costs.

Overall, the SC60 Radial Leaded PPTC Resettable Fuse is a versatile component that can be used in a wide range of applications. Its surface mount design and resettable nature make it a convenient and cost-effective solution for protecting against overcurrent events. Whether you are working on a power supply, motor control circuit, LED lighting system, or automotive electronics, the SC60 is an excellent choice for your application.

## FAQ:

**Q: What is the brand name of this product?**

A: The brand name is SOCAY.

**Q: What is the model number of this product?**

A: The model number is SC60-017CW0D .

**Q: Where is this product made?**

A: This product is made in Shenzhen, Guangdong, China.

**Q: What is a PPTC resettable fuse?**

A: A PPTC resettable fuse is a type of overcurrent protection device that is designed to automatically reset once the overcurrent condition is removed.

**Q: What applications is the SOCAY SC60 PPTC resettable fuse suitable for?**

A: The SOCAY SC60 PPTC resettable fuse is suitable for a wide range of applications including power supplies, battery chargers, consumer electronics, and automotive electronics.



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