

## SOCAY PPTC Leaded PPTC Resettable Fuse with 16Vdc SC16-800SZ0D

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: SC16-800SZ0D
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Component Name: PPTC Resettable Fuse
- Package: Radial Lead
- I Hold: 8.0A
- I Trip: 16.0A
- V Max: 16V
- I Max: 40A
- P Dtyp.: 3.0W
- Current: 40.0A
- Time: 9.0S
- R Min: 0.006Ω
- R Max: 0.012Ω
- R1 Max: 0.021Ω
- Highlight: 16Vdc PPTC Resettable Fuse

## Product Description

### SOCAY PPTC Leaded PPTC Resettable Fuse with 16Vdc SC16-800SZ0D

**PPTC Resettable Fuse DATASHEET:** [SC16-800SZ0D\\_v2108.1.pdf](#)

#### Product Description:

The Radial Leaded PPTC Resettable Fuse has a radial shape, which makes it easy to install and replace. It is designed to prevent damage to electronic components and can be used in various devices, including laptops, smartphones, and other electronic devices. With a rated current range of 8A to 16A, this fuse can protect your circuit from overloading and short circuits. Its P Dtyp is 3W, making it a reliable and efficient component in your electronic design.

This Leaded PPTC Resettable Fuse is a cost-effective solution for protecting your electronic circuits from overcurrent and short circuits. It is easy to install and replace, making it an ideal choice for both DIY enthusiasts and professionals.

#### Features:

Product Name: PPTC Resettable Fuse

Halogen-Free and RoHS Compliant

Radial leaded Devices

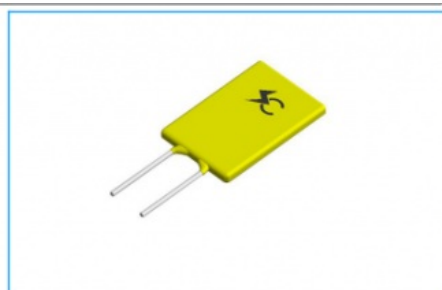
Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements

##### Features

- ◆ RoHS Compliant and Halogen-Free
- ◆ Radial leaded Devices
- ◆ Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 8.00A, Maximum Voltage: 16Vdc, Operating Temperature: -40°C to +85°C

##### Applications

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



#### Technical Parameters:

Type	Radial Leaded PPTC Resettable Fuse
Current	40A
I Trip	16A
Current Range	8A-16A
Dimension	SC16
P Dtyp	3W
Maximum Voltage	16Vdc
Shape	Radial

## 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>typ</sub> (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (s)	R <sub>min</sub> (Ω)	R <sub>max</sub> (Ω)	R1 <sub>max</sub> (Ω)
SC16-800SZ0D	8.00	16.00	16	40	3.00	40.0	9.0	0.006	0.012	0.021

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

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

V<sub>max</sub>= Maximum voltage device can withstand without damage at rated current.

I<sub>max</sub>= Maximum fault current device can withstand without damage at rated voltage.

T<sub>tr</sub>=Maximum time to trip(s) at assigned current.

P<sub>typ</sub>= Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R<sub>min</sub>= Minimum device resistance at 25°C prior to tripping.

R<sub>max</sub>= Maximum device resistance at 25°C prior to tripping.

R1<sub>max</sub>= 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 Chart - I<sub>hold</sub> (A)

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

## Applications:

The SC16 is made with high-quality materials, including tin-plated nickel-copper terminal pads. This ensures a durable and reliable connection, even in harsh environments. Additionally, the SC16 is designed to operate in a wide temperature range, from -40 to +85 , making it suitable for use in a variety of applications.

The SC16 is ideal for use in a variety of electronic devices, such as power supplies, battery chargers, and motor control circuits. It can also be used in automotive electronics, telecommunications equipment, and industrial control systems.

In summary, the SOCAY SC16 is a reliable and durable Leaded PPTC Resettable Fuse that provides overcurrent protection for a wide range of applications. Its high-quality materials, wide temperature range, and high clamping voltage make it an ideal choice for any electronic device that requires protection against excessive current.

## FAQ:

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

A: A PPTC (Polymeric Positive Temperature Coefficient) resettable fuse is a type of overcurrent protection device that automatically resets itself once the fault condition has been removed.

### Q: What is the brand name of the PPTC resettable fuse?

A: The brand name of the PPTC resettable fuse is SOCAY.

### Q: What is the model number of the SOCAY PPTC resettable fuse?

A: The model number of the SOCAY PPTC resettable fuse is SC16-800SZ0D.

### Q: Where is the SOCAY PPTC resettable fuse manufactured?

A: The SOCAY PPTC resettable fuse is manufactured in Shenzhen, Guangdong, China.

### Q: What is the advantage of using a PPTC resettable fuse?

A: The advantage of using a PPTC resettable fuse is that it provides automatic resettable protection, which eliminates the need for replacement after a fault condition has been cleared.



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