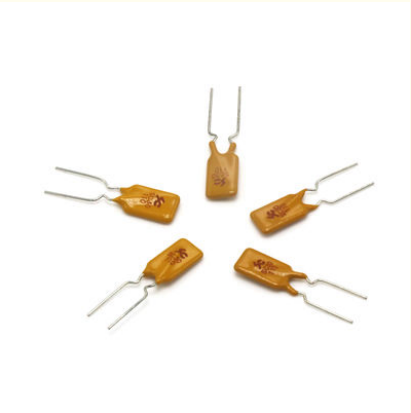
SOCAY PPTC Electronic Fuse Radial Lead Resettable Polymer PTCs SC30-600SZ0D For Circuit Protection

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL,REACH,RoHS,ISO
- Model Number: SC30-600SZ0D
- Minimum Order Quantity: 5000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Component Name: PPTC Resettable Fuse
- Package: Radial Lead
- I Hold: 6.0A
- I Trip: 12.0A
- V Max: 30Vdc
- I Max: 40A
- P Dtyp.: 3.5W
- Current: 30.0A
- Time: 16.0S
- R Min: 0.005Ω
- R Max: 0.02Ω
- R1 Max: 0.03Ω
- Highlight: **Circuit Protection PPTC Electronic Fuse**

Product Description

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PPTC Resettable Fuse DATASHEET:SC30-600SZ0D_v203.1.pdf

Product Description:

Our PPTC Resettable Fuse is available in a range of current ratings from 6.0A to 12.0A, making it a versatile option for a variety of applications. Whether you need to protect a low-power or high-power circuit, our resettable fuse has got you covered.
This Radial Leaded PPTC Resettable Fuse is designed for easy installation. Its compact size and DIP design make it easy to integrate into any circuit board.
With a R1 max of Radial, our PPTC Resettable Fuse ensures maximum efficiency and reliability. You can trust that your circuit is protected at all times.
Our PPTC Resettable Fuse is a must-have component for any electronic device that requires circuit protection. Whether you need a Leaded PPTC Resettable Fuse, Radial Leaded PPTC Resettable Fuse, or Radial Lead PPTC Resettable Fuse, our product is the perfect solution.

Features:

1. Protection Function: The self-recovery fuse can be employed to cut off the circuit in the event of overcurrent or overheating, thereby protecting the electrical components in the circuit from damage.
2. Automatic Recovery: Following troubleshooting, the self-recovery fuse can be restored to its original state without the need for manual intervention or replacement.
3. Repeated Use: Self-recovery fuses can be used in multiple overcurrent or overheating conditions, with the characteristics of repeated use.
4. Small size: The compact dimensions of the self-recovery fuse facilitate its integration into the circuit, thereby conserving space.

Features

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Operation Current: 6.00A, Maximum Voltage: 30Vdc, Operating Temperature: -40℃ to +85℃

Technical Parameters:

I hold	6.0A
I trip	12.0A
V max	30Vdc
I max	40A
P dtyp.	3.5W
Maximum Time To Trip Current	30A
Maximum Time To Trip Time	16S
R min	0.005Ω
R max	0.02Ω
R1 max	0.03Ω

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)
SC30-600SZ0D	6.00	12.00	30	40	3.50	30.0	16.0	0.005	0.020	0.030

I_{hold}= Hold current: maximum current at which the device will not trip at 25℃ still air.
I_{trip}= 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}= 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.

Temperature Rerating Chart - I_{hold} (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%

Applications:

Firstly, the SOCAY SC30 Radial Leaded PPTC Resettable Fuse is ideal for use in automotive electronics. With vehicles becoming increasingly reliant on electrical systems, protection against short circuits and overloads is essential. The radial lead design of this fuse makes it easy to install and replace in vehicles.
The SOCAY SC30 is also well-suited for use in consumer electronics, particularly those that require high levels of protection against overcurrents. This includes laptops, desktop computers, and other devices that handle large amounts of data and require high levels of power. The multifuse design ensures that these devices are protected against short circuits and overloads.
Another application for the SOCAY SC30 Radial Leaded PPTC Resettable Fuse is in the industrial sector. With machinery and equipment often operating at high voltages, the need for reliable protection against overcurrents is paramount. The SOCAY SC30's radial lead design makes it easy to install and replace in industrial equipment, ensuring that machinery remains protected at all times.
In addition, the SOCAY SC30 is well-suited for use in renewable energy systems, which often operate at high voltages and require reliable protection against overcurrents. The radial lead design of this fuse makes it easy to install and replace in renewable energy systems, ensuring that these systems remain protected against short circuits and overloads.
Overall, the SOCAY SC30 Radial Leaded PPTC Resettable Fuse is a versatile and reliable product that is well-suited for a range of applications. Whether you're working in the automotive, consumer electronics, industrial, or renewable energy sector, this fuse is sure to meet your needs.

FAQ:

Q: What is a PPTC Resettable Fuse?
A PPTC Resettable Fuse is a type of electrical protection device that is designed to automatically reset itself after a fault is cleared. It provides overcurrent protection to electrical circuits and can be used in a variety of applications.
Q: What is the brand name of the PPTC Resettable Fuse?
The brand name of the PPTC Resettable Fuse is SOCAY.
Q: What is the model number of the PPTC Resettable Fuse?
The model number of the PPTC Resettable Fuse is SC30-600SZ0D.
Q: Where is the PPTC Resettable Fuse manufactured?
The PPTC Resettable Fuse is manufactured in Shenzhen, Guangdong, China.
Q: What are some common applications of the PPTC Resettable Fuse?
The PPTC Resettable Fuse can be used in a variety of applications, including power supplies, telecommunications equipment, automotive electronics, and consumer electronics.

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