SOCAY PTCs Radial Lead PPTC Resettable Fuse SC30-135SW0D Radial Component For Electronics

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL,REACH,RoHS,ISO
- Model Number: SC30-135SW0D
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

Product Specification

- Component Name: PPTC Resettable Fuse
- Package: Radial Lead
- I Hold: 1.35A
- I Trip: 2.7A
- V Max: 30Vdc
- I Max: 40A
- P Dtyp.: 0.8W
- Current: 6.75A
- Time: 7.3S
- R Min: 65mΩ
- R Max: 115mΩ
- R1 Max: 180mΩ
- Highlight: PPTC Resettable Fuse SC30-135SW0D

Product Description

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PPTC Resettable Fuse DATASHEET:SC30-135SW0D_v2106.1.pdf

Product Description:

With a current range of 1.35A to 2.7A, the Leaded PPTC Resettable Fuse can protect a wide range of electronic devices. The PPTC Resettable Fuse is designed to open the circuit when the current exceeds the maximum rated level, and it will automatically reset itself once the overcurrent condition is removed. This makes it an ideal solution for applications where a high degree of reliability is required, such as in automotive, telecommunications, and consumer electronics.

The Radial Lead PPTC Resettable Fuse is also designed with a maximum resistance of 115mΩ, ensuring that it does not cause any additional voltage drop or power dissipation within the circuit. This means that it can effectively protect the circuit without affecting its overall performance.

The Leaded PPTC Resettable Fuse is an efficient and cost-effective solution for protecting electronic devices from overcurrent conditions. Its radial lead package makes it easy to install and replace, and its self-resetting feature ensures that the circuit is protected without the need for constant maintenance or replacement. Whether used in automotive, telecommunications, or consumer electronics applications, the PPTC Resettable Fuse provides a high level of protection and reliability.

Features:

1. Protection function: self-recovery fuse can cut off the circuit in the case of overcurrent or overheating, so as to protect the electrical components in the circuit from damage.

2. Automatic recovery: After troubleshooting, the self-recovery fuse can automatically restore its function without 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 small size of the self-recovery fuse is easy to integrate into the circuit, which can save space.

Technical Parameters:

I hold	1.35A
I trip	2.7A
V max	30Vdc
I max	40A
P dtyp.	0.8W
Maximum Time To Trip Current	6.75A
Maximum Time To Trip Time	7.3S
R min	65mΩ
R max	115mΩ
R1 max	180mΩ

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} (mΩ)	R_{max} (mΩ)	$R1_{max}$ (mΩ)
SC30-135SW0D	1.35	2.7	30	40	0.8	6.75	7.3	65	115	180

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° C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Thermal Derating Chart – I_{hold} (A)

Part Number	Maximum Ambient Operation Temperature									
	-40℃	-20℃	0℃	23℃	30℃	40℃	50℃	60℃	70℃	85℃
	Percentage Reduction									
SC30-135SW0D	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

Applications:

One of the key advantages of the SC30 Radial Leaded PPTC Resettable Fuse is its high I max rating of 180mΩ. This ensures that the fuse is capable of handling high current loads, making it suitable for use in a wide range of electronic devices.
The package of the SC30 Radial Leaded PPTC Resettable Fuse is designed for easy installation, with a radial leaded package that makes it easy to mount onto a printed circuit board. This makes it ideal for use in a range of scenarios, including consumer electronics, industrial automation, and automotive applications.
The current rating of the SC30 Radial Leaded PPTC Resettable Fuse ranges from 1.35A to 2.7A, providing a flexible range of options for different types of devices and applications. The I trip rating of 40A ensures that the fuse will trip in the event of a short circuit or overcurrent condition, helping to protect the device and prevent damage.
Overall, the SOCAY SC30 Radial Leaded PPTC Resettable Fuse is a reliable and versatile component that is ideal for a range of applications. Whether you are working in consumer electronics, industrial automation, or automotive applications, this leaded PPTC resettable fuse is sure to provide the protection and reliability you need.

FAQ:

A: The brand name of this product is SOCAY.
Q: What is the model number of this product?
A: The model number of this product is SC30-135SW0D.
Q: Where is this product manufactured?
A: This product is manufactured in Shenzhen, Guangdong, China.
Q: What is the function of this product?
A: This product is a PPTC resettable fuse, designed to protect electrical circuits from overcurrent and short-circuit conditions.
Q: What is the maximum voltage and current rating for this product?
A: The maximum voltage rating for this product is 30 volts DC, and the maximum current rating is 40 amps.

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