SC30-250SW0D 2.5A PPTC Resettable Fuse Maximum Voltage 30Vdc UL94V-0

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SC30-250SW0D
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

Product Specification

- Other Name: PPTCs Fuse
- Package Type: Radial Lead
- I Hold: 2.5A
- I Trip: 5.0A
- V Max: 30V
- I Max: 40A
- P Dtyp.: 1.2W
- Maximum Time To Trip Current: 12.5A
- Maximum Time To Trip Time: 10.3Sec
- Resistance Min: 0.035Ω
- Resistance Max: 0.07Ω
- Resistance 1max: 0.110Ω
- Highlight: **2.5A PPTC Resettable Fuse**, **PPTC Resettable Fuse UL94V-0**

More Images

Product Description

SC30-250SW0D 2.5A PPTC Resettable Fuse Maximum Voltage 30Vdc Meets UL94V-0 Requirements

DATASHEET: SC30-250SW0D_v96.2.pdf

Electrical Parameters:

Part Number	I hold (A)	I trip (A)	V max (Vdc)	I max (A)	Pdtyp (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (S)	R min (Ω)	R max (Ω)	R1max (Ω)
SC16-600SZ0D	6.00	12.00	16	40	2.80	30.0	5.8	0.010	0.020	0.035

Please kindly contact us if you need full datasheet or more informations

Product features of resettable fuses:
The most obvious difference between polymer resettable fuses and ordinary fuses is their resettable characteristics. Although both can provide overcurrent protection, a polymer resettable fuse can provide overcurrent protection many times while a regular fuse must be replaced once it blows for the circuit to function properly. In an overheated and overhumid environment, some characteristics of polymer resettable fuses may be damaged; under normal storage conditions, the life of polymer resettable fuses can be considered unlimited.
Selection of resettable fuse:
When selecting PPTC, the following principles should generally be followed, and the appropriate model should be selected based on the maximum operating voltage V of the line, the normal operating current I, the fault current IF and the maximum ambient temperature TMAX. At the maximum operating ambient temperature TMAX, the following should be met:
1. Selection of sustaining current IH: sustaining current IH is slightly larger than operating current I;
2. Selection of fault current IF: fault current IF should be greater than trigger current IT and less than maximum current I max;
3. Maximum voltage V max: The maximum voltage V max is greater than the line operating voltage. When selecting PPTC, the operating temperature must be considered and derated.

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%

Test Procedures and Requirement:

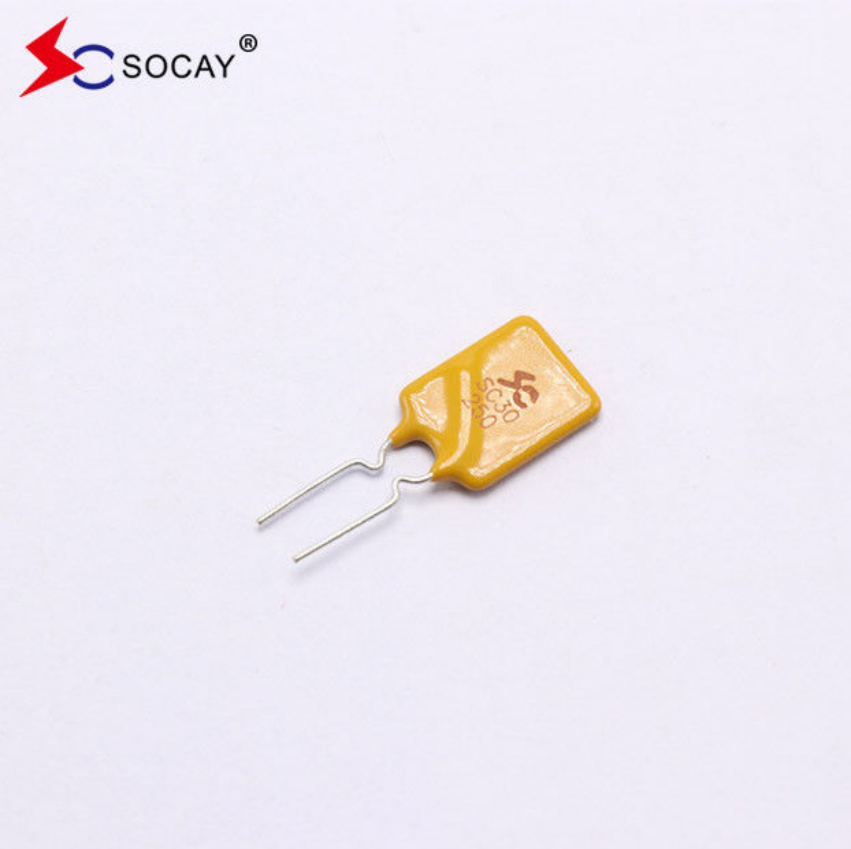
Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @25±2°C	Rmin≤R≤Rmax
Hold Current	60 min, at Ihold, In still air @25±2°C	No trip
Time to Trip	Specified current, Vmax, @25±2°C	T≤Maximum Time To Trip
Trip Cycle Life	Vmax, Imax,100 cycles	No arcing or burning
Trip Endurance	Vmax,24hours	No arcing or burning

Physical Specifications:

Lead Material	0.03-1.85A Tin-plated Copper clad steel 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

Packaging Quantity:

Part Number	Quantity (pcs/reel)
SC30-250SW0D	1000



Application
Digital products, Cameras, Mobile phones, Photo frames, Control panels, Toys, LCDs, Power supplies, Communication equipment, Security products, Audio, Converters. It is used in almost all low-voltage power supply products, and lightning protection packages, etc.

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