Radial Lead Resettable Polymer PPTC SC250-600CZ0D 4W RoHS Compliant Halogen Free

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SC250-600CZ0D
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

Product Specification

- Name: PPTC Resettable Fuse
- Mounting Type: Radial Lead
- Operation Current: 0.6A
- I Trip: 1.20A
- Maximum Voltage: 220V
- I Max: 3A
- P Dtyp.: 4W
- Maximum Time To Trip Current: 3.0A
- Maximum Time To Trip Time: 10.0Sec
- Resistance Min: 0.5Ω
- Resistance Max: 0.75Ω
- Resistance 1max: 1.13Ω
- Highlight: **Radial Lead Resettable Polymer PPTC**, **RoHS Resettable Polymer PPTC**

More Images

Product Description

Original Factory SOCAY Resettable Polymer PPTC SC250-600CZ0D In Stock

Resettable Polymer PPTC DATASHEET: SC250-600CZ0D_v98.1.pdf

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)
Resettable Polymer PPTC										
SC250-600CZ0D	0.60	1.20	220	3.0	4.0	3.0	10.0	0.50	0.75	1.13

About PPTCs

PTC (Polymer Positive Temperature Coefficient) devices can help protect against overcurrent surges and overtemperature failures. Thermistor-type devices limit the flow of dangerously large currents during fault conditions. However, it is different from traditional fuses that can only be used once and must be replaced. The PTC device that Jidentong has carefully crafted over many years can be reset after troubleshooting and disconnecting the power supply, thereby reducing component costs and service fees. PTC circuit protection devices are made of polymer PTC raw materials mixed with nano conductor particles. At normal temperatures, the material tightly binds the conductor into a crystalline structure, forming a low-impedance link. However, when a large current passes through or the ambient temperature rises, causing the device temperature to be higher than the operating temperature, the conductors in the polymer melt and become irregularly arranged, causing the volume to expand and cause the impedance to increase rapidly.

Typical applications of resettable fuses in electronic circuits:

1. Protection of battery charger

In the battery charger circuit, the unregulated DC output voltage of the power converter is modulated by the voltage stabilizing circuit and converted into an appropriate voltage to charge the battery. PPTC devices and voltage overload protection devices cooperate with each other to protect against the following faults:

*Excessive current. Excessive current may damage the power FET or battery pack;

*Reverse polarity. At this time, the diode is turned on and the PPTC device enters a high impedance state to limit the current;

*The voltage is too high. At this time, the voltage overload protection device works, and the PPTC device limits the current.

Resettable Polymer PPTC Features:

u RoHS Compliant and Halogen-Free
u Radial leaded Devices
u Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
u PPTC Resettable Fuse Operation Current: 0.90A, Maximum Voltage: 60Vdc, Operating Temperature: -40 to +85

Resettable Polymer PPTC Applications:

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

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

Resettable Polymer PPTC 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

Resettable Polymer PPTC Packaging Quantity:

Part Number	Quantity (pcs/reel)
SC250-600CZ0D	500

FAQ
Q1. Can I have a sample order ?
A: Yes, we welcome sample order to test and check quality. Mixed samples are acceptable.
Q2. What about the lead time?
A:Sample needs 1 days, mass production time needs 1-2 weeks for order quantity more than
Q3. Do you have any MOQ ?
A: MOQ depend on the type of product, 1pc for sample checking is available
Q4. How do you ship the goods and how long does it take to arrive?
A: We usually ship by DHL, UPS, FedEx or TNT. It usually takes 3-5 days to arrive. Airline and sea shipping also optional.
Q5. How to proceed an order ?
A: Firstly let us know your requirements or application.
Secondly We quote according to your requirements or our suggestions.
Thirdly customer confirms the samples and places deposit for formal order.
Fourthly We arrange the production.

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