MF72-SCN8D-9 NTC Power Thermistor Φ9mm 110μF For Switch Mode Power Supply

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL,REACH,RoHS,ISO
- Model Number: MF72-SCN8D-9
- Minimum Order Quantity: 1000PCS / 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

Product Specification

- Product Name: NTC Thermistor
- Package Type: Φ9mm
- R25: 8Ω
- Imax: 2A
- Resistance Under Load: 400mΩ
- δ: 11mW/
- τ: 32 Secs.
- C: 110μF
- Storage Temperature Range: -10 To +40
- Highlight: **9mm NTC Power Thermistor**, **NTC Power Thermistor 110μF**, **NTC 8D-9**

Our Product Introduction

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Product Description

High Power Rating MF72-SCN8D-9 Power Thermistor Φ9mm NTC Thermistor for Switch Mode Power Supply

DATASHEET: MF72-SCN8D-9_v2105.1.pdf

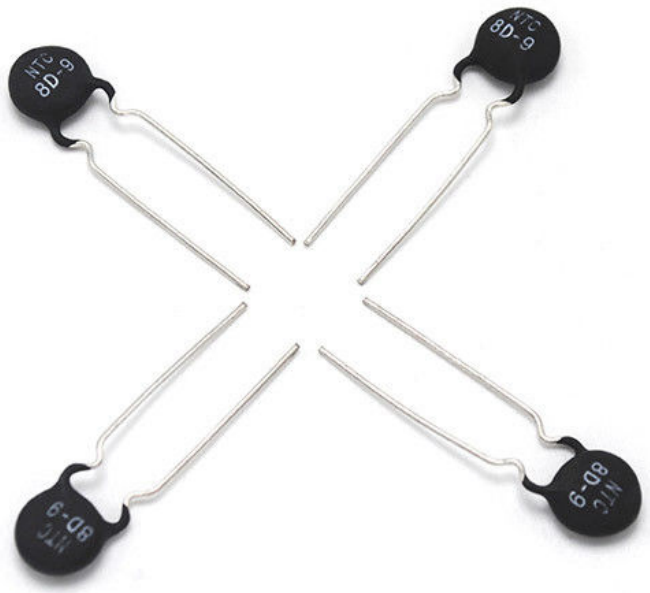
Part Number	Resistance at 25 ±20%	Max. Permissible Working Current	Resistance under Load (mΩ)	Dissipation Factor	Thermal Time Constant	Maximum permissible capacitance @240Vac
	R_{25}(Ω)	I_{max}(A)	(mΩ)	δ(mW/)	τ(Sec.)	C(uF)
MF72-SCN8D-9	8	2	400	11	32	110

About NTC

NTC is the abbreviation of Negative Temperature Coefficient, which means negative temperature coefficient. It generally refers to semiconductor materials or components with a large negative temperature coefficient. Usually, the NTC we refer to refers to a negative temperature coefficient thermistor, or NTC thermistor for short. Also known as a negative temperature coefficient thermistor, it is a type of sensor resistor whose resistance value decreases as the temperature increases.

The NTC thermistor is a very simple temperature sensor that is very common in consumer electronics. NTC thermistor is a typical temperature-sensitive semiconductor resistor, and its resistance value decreases step by step as the temperature increases.
NTC thermistors are made of metal oxides such as manganese, cobalt, nickel, and copper as the main materials, and are manufactured using ceramic processes. These metal oxide materials have semiconductor properties because they are completely similar to germanium, silicon, etc. in conductive methods. Semiconductor materials. When the temperature is low, the number of carriers (electrons and holes) of these oxide materials is small, so the resistance value is high; as the temperature increases, the number of carriers increases, so the resistance value decreases.

SOCAY®



Features:

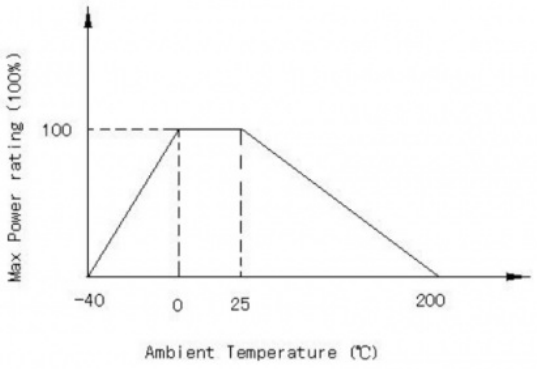
RoHS & Halogen Free (HF) compliant
Body size: φ9mm
Radial lead resin coated
High power rating
Wide resistance range
Cost effective
Operating temperature range: -40~+200
Agency recognition: UL /cUL/RoHS

Part Number Code

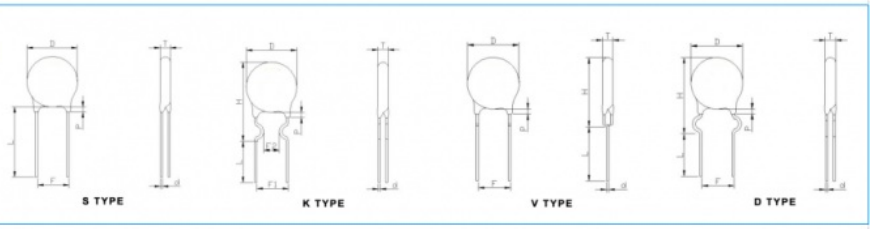
MF72	SCN	8D	-	9
(1)	(2)	(3)		(4)

(1) MF72: MF72 Series.
(2) SCN: Socay NTC.
(3) 8D: Zero Power Resistance at 25℃(R_{25}):8=8Ω.
(4) Body Size: 9=Φ9mm.

Maximum Power Rating（Pmax）



Structure and Dimensions (Unit: mm)



D max	T max	P max	F	H	L_{short}/L_{long}	d	Type
10.5	5.5	3.0	7.5±0.5	--	7±1/20 ± 1	0.75	S
10.5	5.5	3.0	7.5±0.5	16.5 ± 1	4±1/20 ± 1	0.75	K/V/D

Note: Length of Pin (L) can be customized.

Part Number	Type of L	Quantity (pcs/bag)
MF72-SCN8D-9	L_{short}	1000
	L_{long}	500

Item	Test conditions / Methods	Test Result
Tensile Strength of Terminals	Fasten body with a Load Applied to each lead 3.0Kg for 1sec.	No break out and damage
Bending Strength of Terminals	Fixed body hand 1.0kg on one terminal bend 90 then back again oppsite.	No break out and damage
Solder Ability	When the Lead wire was dipped into bath 0f 235 ± 5 for 3 seconds after immersion in 25% rosin flux the solder ability ratio of lead wire surface should more than 95%.	More than 95% solder ability
Temp. Cycle Test	(-40 ×→+25 ×3min) × 5Cycles (-85 ×→+25 ×3min) × 5Cycles	| ΔR/R | ≤ ±20 %
Humidity Test	45 95%RH×1000 hours	| ΔR/R | ≤ ±20 %
Load Life	6 AMP×1000 hours	| ΔR/R | ≤ ±20 %
Insulation Test	DC 700V	R≥500MΩ

Thermister NTC Selection methods and Applications

I.Selection methods

Zero power resistance based on maximum operating ambient temperature.

The maximum steady-state current at the maximum ambient temperature is greater than the customer's maximum long-term operating current, with a margin.

II.Applications
Switching power supplies, adapters, PD fast chargers,electronic motors, etc.

About SOCAY

we are manufacturer and supplier of NTC ,DIODES ect passive components more than 20 years from China .if you have any request please contact us freely .

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