

## High Power Rating NTC Thermistor MF72-SCN3D-9 Working Current 4A

Our Product Introduction

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: MF72-SCN3D-9
- Minimum Order Quantity: 1000PCS / 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Product Name: NTC Thermistor
- Package Type:  $\Phi 9\text{mm}$
- R25:  $3\Omega$
- I<sub>max</sub>: 4A
- Resistance Under Load:  $120\text{m}\Omega$
- $\delta$ :  $11\text{mW/}$
- $\tau$ : 35 Secs.
- C:  $110\mu\text{F}$
- Storage Temperature Range:  $-10\text{ To }+40$
- Highlight: NTC Thermistor 4A,  
High Power Rating NTC Thermistor, NTC 3D-9



### More Images



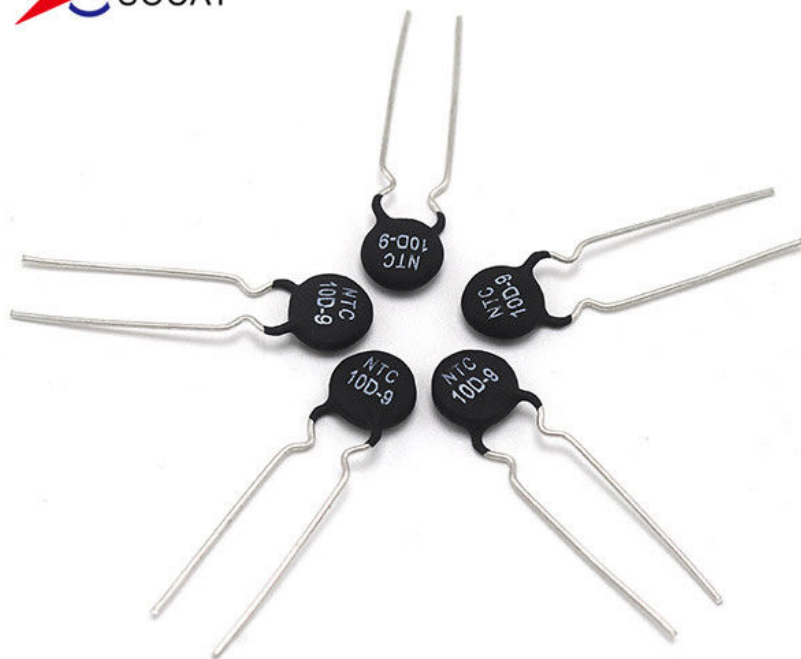
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## Product Description

9D Series NTC Thermistor MF72-SCN3D-9 Working Current 4A Dissipation Factor 11mW/

**DATASHEET:** [MF72-SCN3D-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)                       | $\delta(mW/)$      | $\tau(Sec.)$          | $C(\mu F)$                              |
| MF72-SCN3D-9 | 3                     | 4                                | 120                        | 11                 | 35                    | 110                                     |



### Features:

RoHS & Halogen Free (HF) compliant  
 Body size:  $\phi 9mm$   
 Radial lead resin coated  
 High power rating  
 Wide resistance range  
 Cost effective  
 Operating temperature range:  $-40\sim+200$   
 Agency recognition: UL /cUL/RoHS

### Applications:

- u Switch mode power supply
- u Electric motor
- u Transformer
- u Adapter
- u Projector
- u Halogen lamp
- u LED driver circuit

### Storage Conditions of Products:

u Storage Conditions:  
 Storage Temperature: -10 ~ +40 .  
 Relative Humidity: ≤ 75%RH.  
 Keep away from corrosive atmosphere and sunlight.  
 u Period of Storage: 1 year.

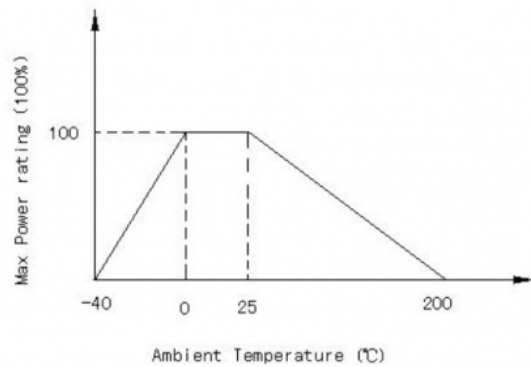
#### Part Number Code

**MF72    SCN    3D   -   9**

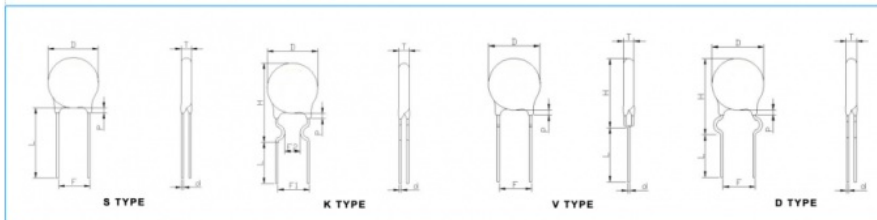
(1)        (2)        (3)        (4)

- (1) MF72: MF72 Series.  
 (2) SCN: Socay NTC.  
 (3) 3D: Zero Power Resistance at 25℃(R<sub>25</sub>):3=3Ω.  
 (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-SCN3D-9 | L-short   | 1000               |
|              | L-long    | 500                |

| Item                                 | Test conditions / Methods                                                                                                                                              | Test Result                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Tensile Strength of Terminals</b> | Fasten body with a Load Applied to each lead 3.0Kg for 1sec.                                                                                                           | No break out and damage      |
| <b>Bending Strength of Terminals</b> | Fixed body hand 1.0kg on one terminal bend 90 then back again oppsite.                                                                                                 | No break out and damage      |
| <b>Solder Ability</b>                | When the Lead wire was dipped into bath of 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 |

|                         |                                                                                                                                |                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Temp. Cycle Test</b> | (-40 $\times \rightarrow$ +25 $\times$ 3min) $\times$ 5Cycles<br>(-85 $\times \rightarrow$ +25 $\times$ 3min) $\times$ 5Cycles | $ \Delta R/R  \leq \pm 20\%$ |
| <b>Humidity Test</b>    | 45 95%RH $\times$ 1000 hours                                                                                                   | $ \Delta R/R  \leq \pm 20\%$ |
| <b>Load Life</b>        | 6 AMP $\times$ 1000 hours                                                                                                      | $ \Delta R/R  \leq \pm 20\%$ |
| <b>Insulation Test</b>  | DC 700V                                                                                                                        | $R \geq 500M\Omega$          |



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