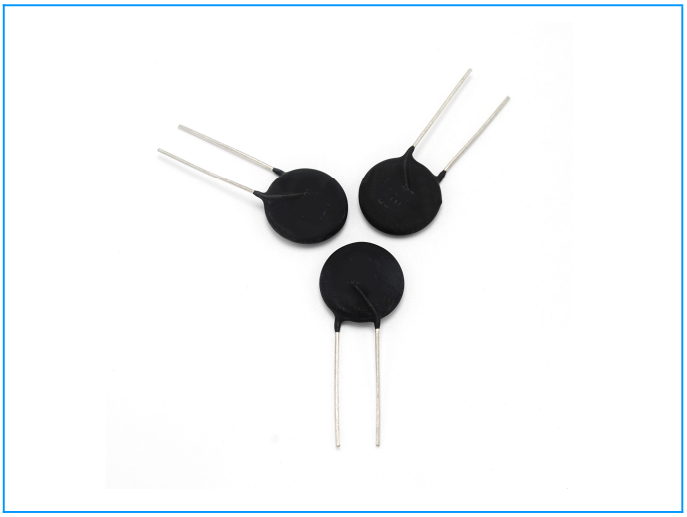
Power Thermistor for Limiting Inrush Current (NTC Thermistor)

MF72-SCN10D-11

Features

- RoHS & Halogen Free (HF) compliant
- Body size: Φ11mm
- Radial lead resin coated
- High power rating
- Wide resistance range
- Cost effective
- Operating temperature range: -40~+200℃
- Agency recognition: UL /cUL/RoHS



Recommended Applications

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

Storage Conditions of Products

- Storage Conditions:

  Storage Temperature: -10℃ ~ +40℃.

  Relative Humidity：≤ 75%RH.

  Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 1 year.

Part Number Code

MF72	SCN	10D	-	11
(1)	(2)	(3)		(4)

(1) MF72: MF72 Series.

(2) SCN: Socay NTC.

(3) 10D: Zero Power Resistance at 25℃(R_{25}):10=10Ω.

(4) Body Size: 11=Φ11mm.

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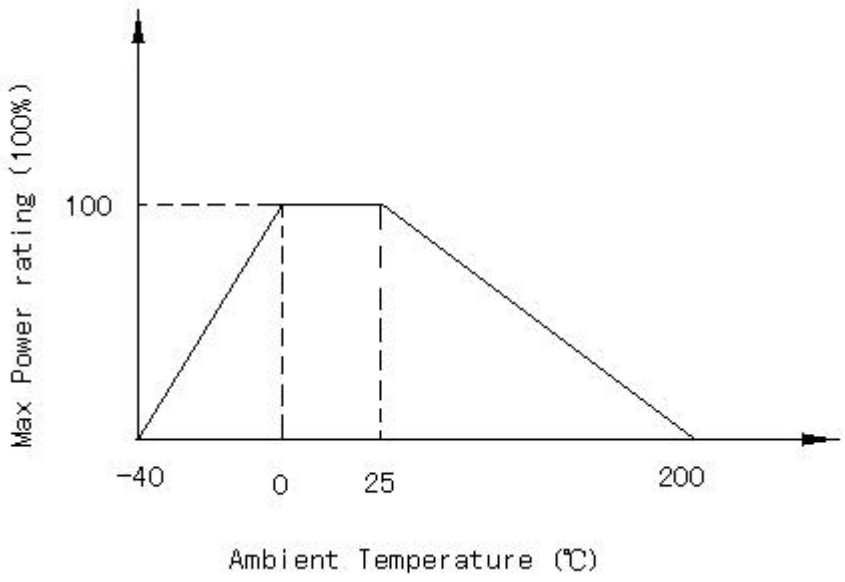
Electrical Characteristics

Part Number	Resistance at 25℃ ±20%	Max. Permissible Working Current	Resistance under Load (mΩ)	Dissipation Factor	Thermal Time Constant
	R_{25}(Ω)	I_{max}(A)	(mΩ)	δ(mW/℃)	τ(Sec.)
MF72-SCN10D-11	10	3	275	14	47

Maximum Power Rating（Pmax）



SOCAY

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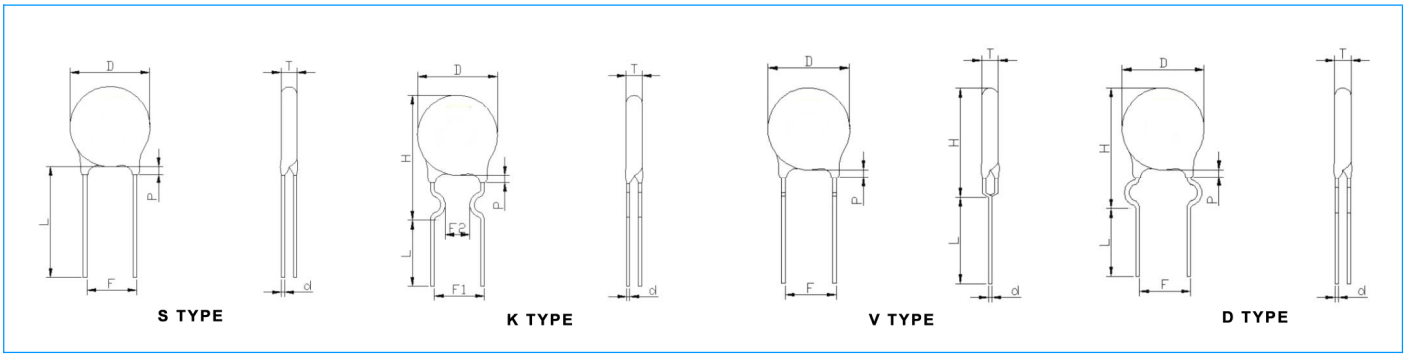
Structure and Dimensions (Unit: mm)



D max	T max	P max	F	H	L_{short}/L_{long}	d	Type
12.5	5.5	3.0	7.5±0.5	--	7±1/20±1	0.75	S
12.5	5.5	3.0	7.5±0.5	17.5±1	4±1/20±1	0.75	K/V/D

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

Packing Specifiction

Part Number	Type of L	Quantity (pcs/bag)
MF72-SCN10D-11	L_{short}	1000
	L_{long}	500

Reliability

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