

Power Thermistor for Limiting Inrush Current (NTC Thermistor)

MF72-SCN1.5D-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~+170°C
- ◆ 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°C ~ +40°C.

Relative Humidity: ≤ 75%RH.

Keep away from corrosive atmosphere and sunlight.

Period of Storage: 1 year.

Part Number Code

MF72	SCN	1.5D	-	11
(1)	(2)	(3)		(4)

- (1) MF72: MF72 Series.
- (2) SCN: Socay NTC.
- (3) 1.5D: Zero Power Resistance at 25° C (R₂₅):1.5=1.5 Ω .
- (4) Body Size: 11=Φ11mm.



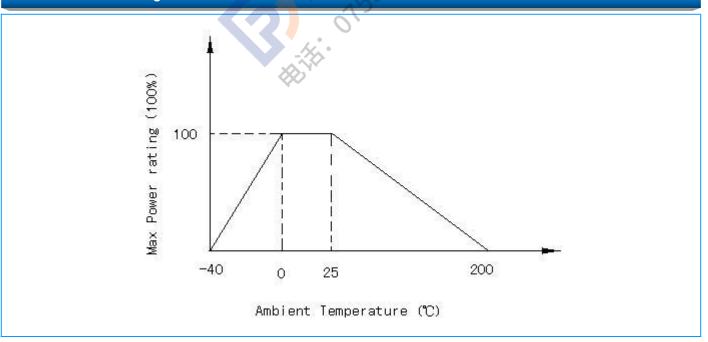
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Electrical Characteristics

Part Number	Resistance at 25℃ ±20%	Max. Permissible Working Current	Resistance under Load (mΩ)	Dissipation Factor	Thermal Time Constant	Maximum permissible capacitance @240Vac
	$R_{25}(\Omega)$	I _{max} (A)	(mΩ)	δ(mW/℃)	τ(Sec.)	C(uF)
MF72-SCN1.5D-11	1.5	5	95	13	43	220

Maximum Power Rating (Pmax)

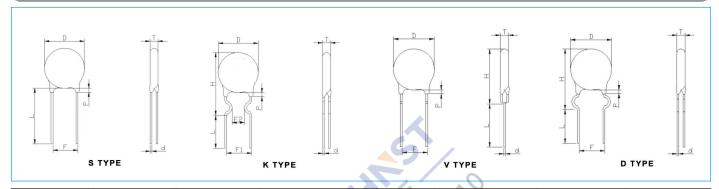




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Structure and Dimensions (Unit: mm)



D max	T max	P max	F	Н	L _{short} /L _{long}	d	Туре
12.5	5.5	3.0	7.5±0.5		7±1/20±1	0.75±0.1	S
12.5	5.5	3.0	7.5±0.5	17.5±1	4±1/20±1	0.75±0.1	K/V/D

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

Packing Specifiction

Part Number	Type of L	Quantity (pcs/bag)
ME70 00N4 FD 44	L _{short}	1000
MF72-SCN1.5D-11	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 \pm 5 $^{\circ}$ C 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°C×→+25°C×3min) × 5Cycles (-85°C×→+25°C×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 500V	R≥100MΩ	