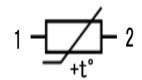


# LTspice Model PTC Thermistor COPAL PRCP-NSMF035/16X-2C



# **Model Information**

Model A macro model

Call Name MDC\_PRCP-NSMF035\_16X-2C\_LT

Pin Assign 1:1 2:2

File List Model Library MDC\_PRCP-NSMF035\_16X-2C\_LT01.lib

Model Report MDC\_PRCP-NSMF035\_16X-2C\_LT.pdf (this file)

Verified Simulator Version

Note

LTspice version XVII

### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Unknown

● Product name PRCP-NSMF035/16X-2C

Company name NIDEC COPAL CORPORATION

Characteristics ResTemp[If],IfVf[Temp],TripCurrentWaveform

## Simulation Range

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Temperature	-40	to	85	deg C



**Model Functions Table** 

# Thermistor

O:Implemented

×: Not Implemented

—: Not applicable

RANK=1	
$R  \Delta  N  K = I$	

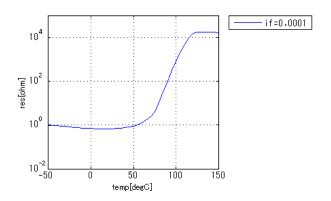
Functions	RANK	Implemented
Resistance-Temperature	1	0
Current-Voltage	1	0
Thermal time constant	1	0



Simulation results are following. Explanatory notes — : simulated

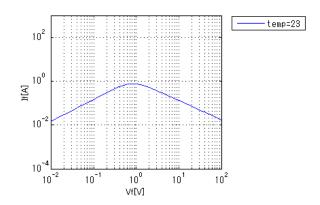
# ResTemp[If]

R Min = 0.3ohm R1 Max = 1.4ohm (at 23degC)



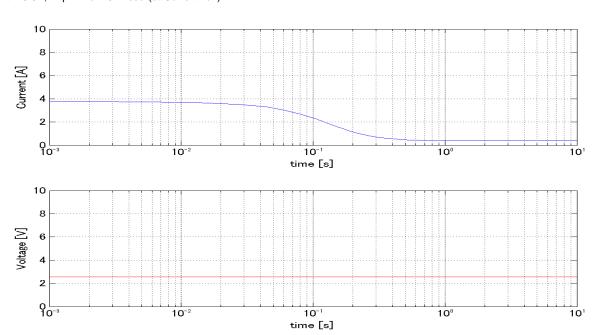
# IfVf[Temp]

Itrip = 0.75A (at 23degC)



# **Trip Current Waveform**

Current = 3.5A, Trip Time = 0.14sec (at Current\*1/2)





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