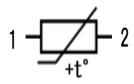


# PSpice Model PTC Thermistor COPAL PRCP-SM125-2-99



## **Model Information**

 Model
 A macro model

 Call Name
 MDC\_PRCP-SM125-2-99\_PS

 Pin Assign
 1:1 2:2

 File List
 Model Library
 MDC\_PRCP-SM125-2-99\_PS01.lib

 Model Report
 MDC\_PRCP-SM125-2-99\_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 17.2

#### References

The information which was used for modeling is as follow:

Unknown PRCP-SM125-2-99 NIDEC COPAL CORPORATION 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



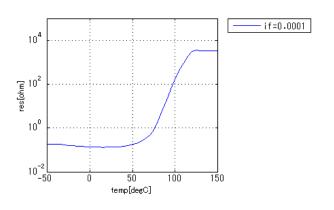
Thermistor		O : Implemented × : Not Implemented	
Model Functions Table	RANK=1	-: Not applicable	
Functions	RANK	Implemented	
Resistance-Temperature	1	0	
Current-Voltage	1	0	
Thermal time constant	1	0	



#### Simulation results are following. Explanatory notes — : simulated

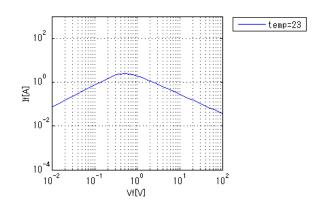
### ResTemp[lf]

R Min = 0.07ohm R1 Max = 0.25ohm ( at 23degC )



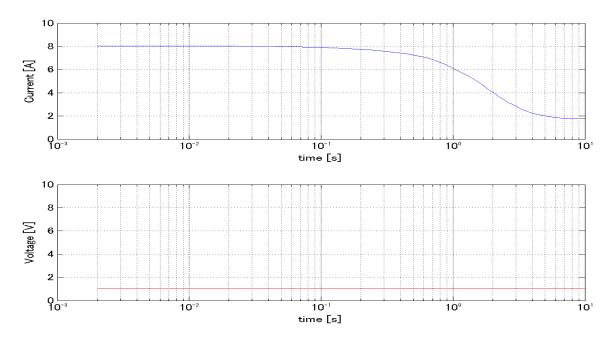
lfVf[Temp]

Itrip = 2.5A ( at 23degC )



### **Trip Current Waveform**

Current = 8.0A, Trip Time = 2.0sec (at Current\*1/2)





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