

PSpice Model

Other Device

COPAL

PRCP-NSMF075-2E



Model Information

Model An original macro model
Call Name MDC_PRCP-NSMF075-2E_PS
Pin Assign 1:1 2:2
File List Model Library MDC_PRCP-NSMF075-2E_PS01.lib
 Model Report MDC_PRCP-NSMF075-2E_PS.pdf (this file)

Verified Simulator Version PSpice version 17.2
Note

References

The information which was used for modeling is as follow :

[Data Sheet]

- Date/Version Unknown
- Product name PRCP-NSMF075-2E
- Company name NIDEC COPAL CORPORATION
- Characteristics ResTemp[I_f], I_fV_f[Temp], TripTimeWaveform

Simulation Range

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

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

Thermistor

○ : Implemented
 × : Not Implemented
 — : Not applicable

Model Functions Table

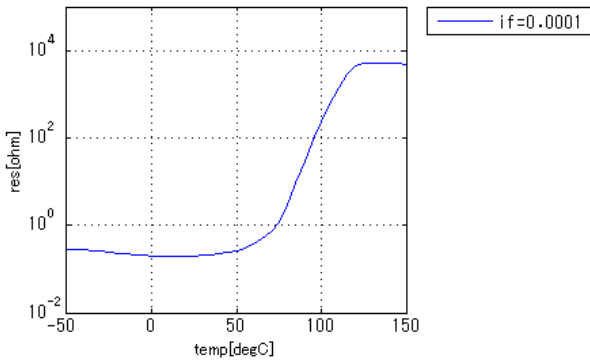
RANK=1

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

Simulation results are following.
 Explanatory notes — : simulated

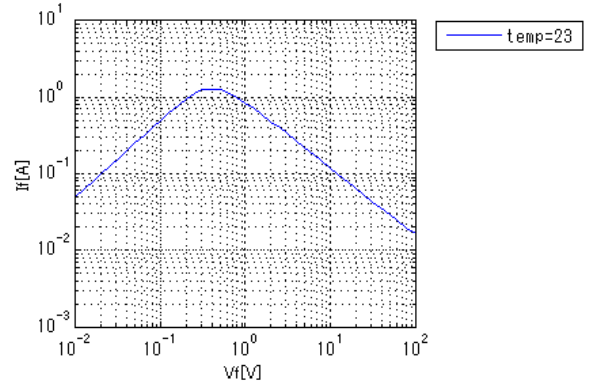
ResTemp[If]

(Rmin=0.10ohm Rmax1=0.40ohm at Temp=23degC)



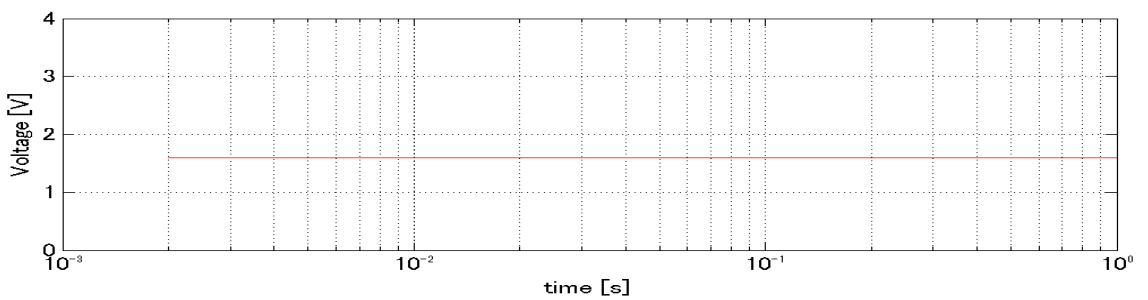
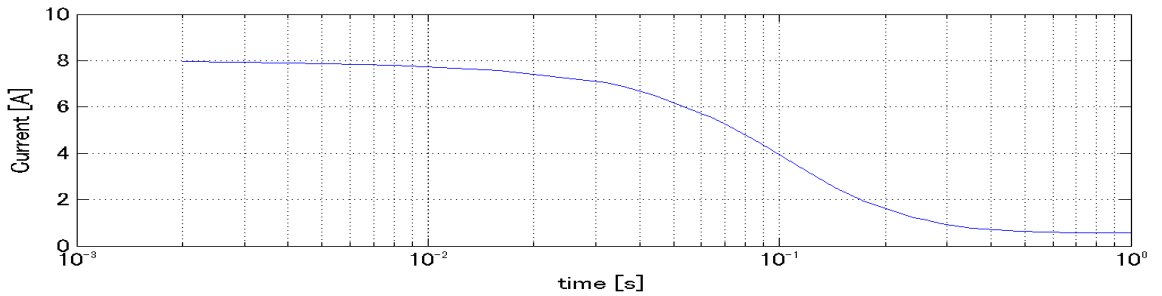
IfVf[Temp]

(Trip Current=1.50A)



Trip Current Waveform

Current=8.0A, Trip Time = 0.10sec (at Current*1/2)



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