

RHRPM4423 PSPICE Model Usage Instructions

The PSPICE model has been developed on OrCAD Capture v. 17.4. We recommend to use this version or higher to avoid convergence problems and speed up the simulation. The zip package contains two files:

- “RHRPM4423.OLB”, the symbol to place in the schematic.
- “RHRPM4423.LIB”, the library containing the real implementation of the model.

In order to use the model, create a new OrCAD project, add the RHRPM4423.OLB library to your project and select the part you want to simulate. Figure 1 shows the list of available parts of RHRPM4423.

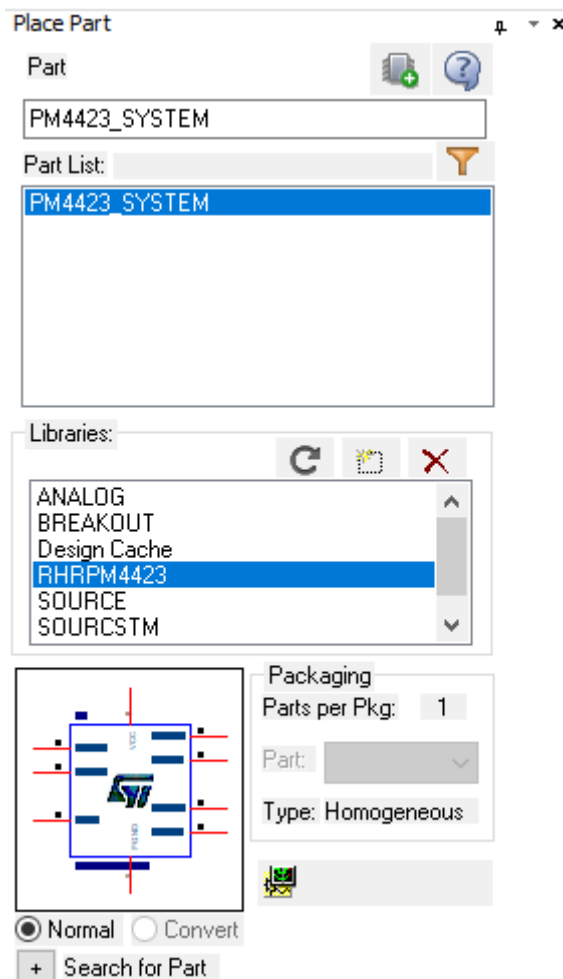


Figure 1 –RHRPM4423 models. Available parts.

Then add the library reference to your simulation profile, as shown in Figure 2.

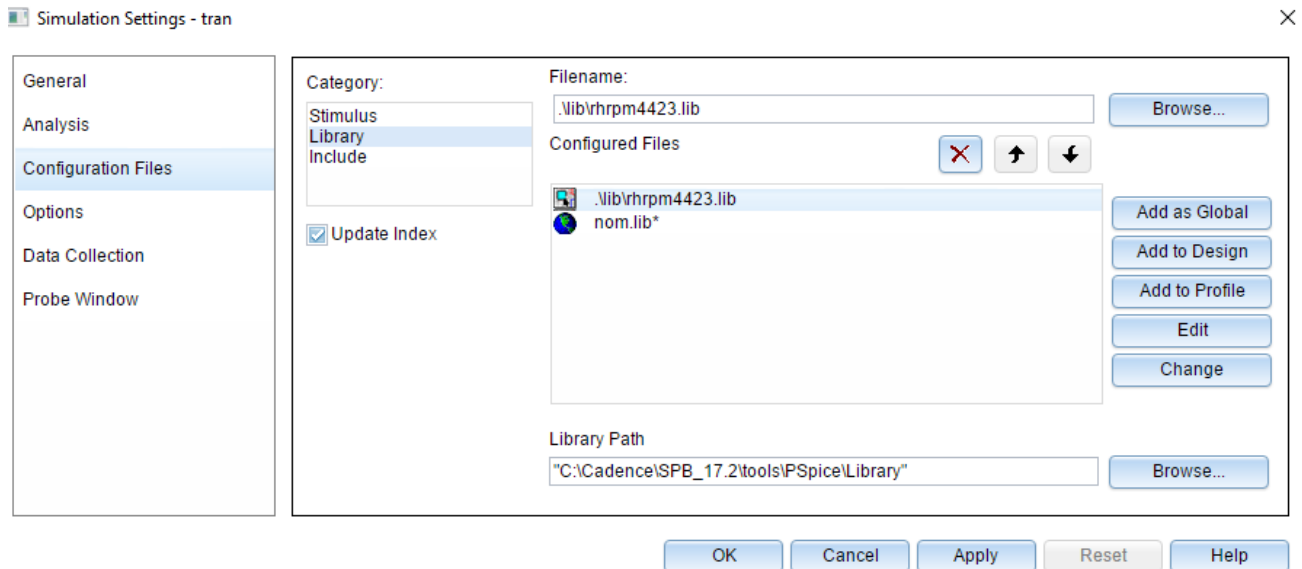
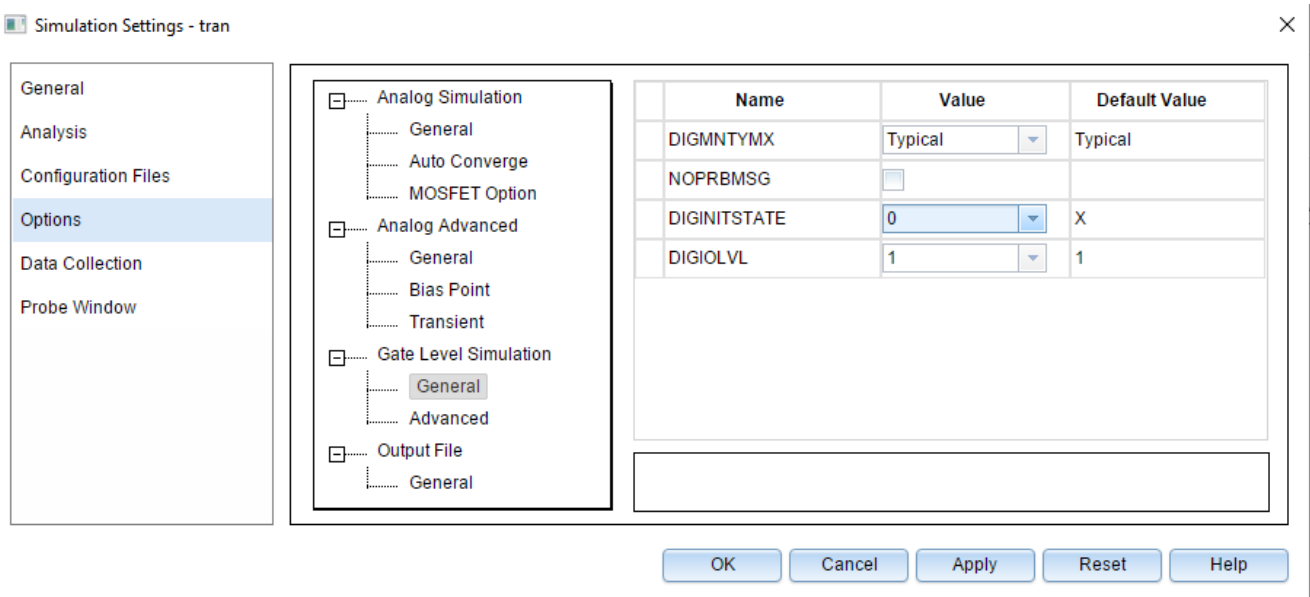


Figure 2 RHRPM4423 library added to the simulation profile

NOTE. Before starting the simulation, make sure that the option “Initialize all flip-flops” is set to “0”.



In case of convergence problems, check the option “AutoConverge”.

Simulation Settings - tran

General

Analysis

Configuration Files

Options

Data Collection

Probe Window

☒ Analog Simulation

- General
 - Auto Converge**
 - MOSFET Option

☒ Analog Advanced

- General
- Bias Point
- Transient

☒ Gate Level Simulation

- General
- Advanced

☒ Output File

- General

	Name	Value	Default Value
☒	AutoConverge		
☒	ITL1	1000	1000
☒	ITL2	1000	1000
☒	ITL4	1000	1000
☒	RELTOL	0.05	0.05
☒	ABSTOL	1.0E-6	1.0E-6
☒	VNTOL	.001	.001
☒	PIVTOL	1.0E-10	1.0E-10
☒	Restart		

OK

Cancel

Apply

Reset

Help