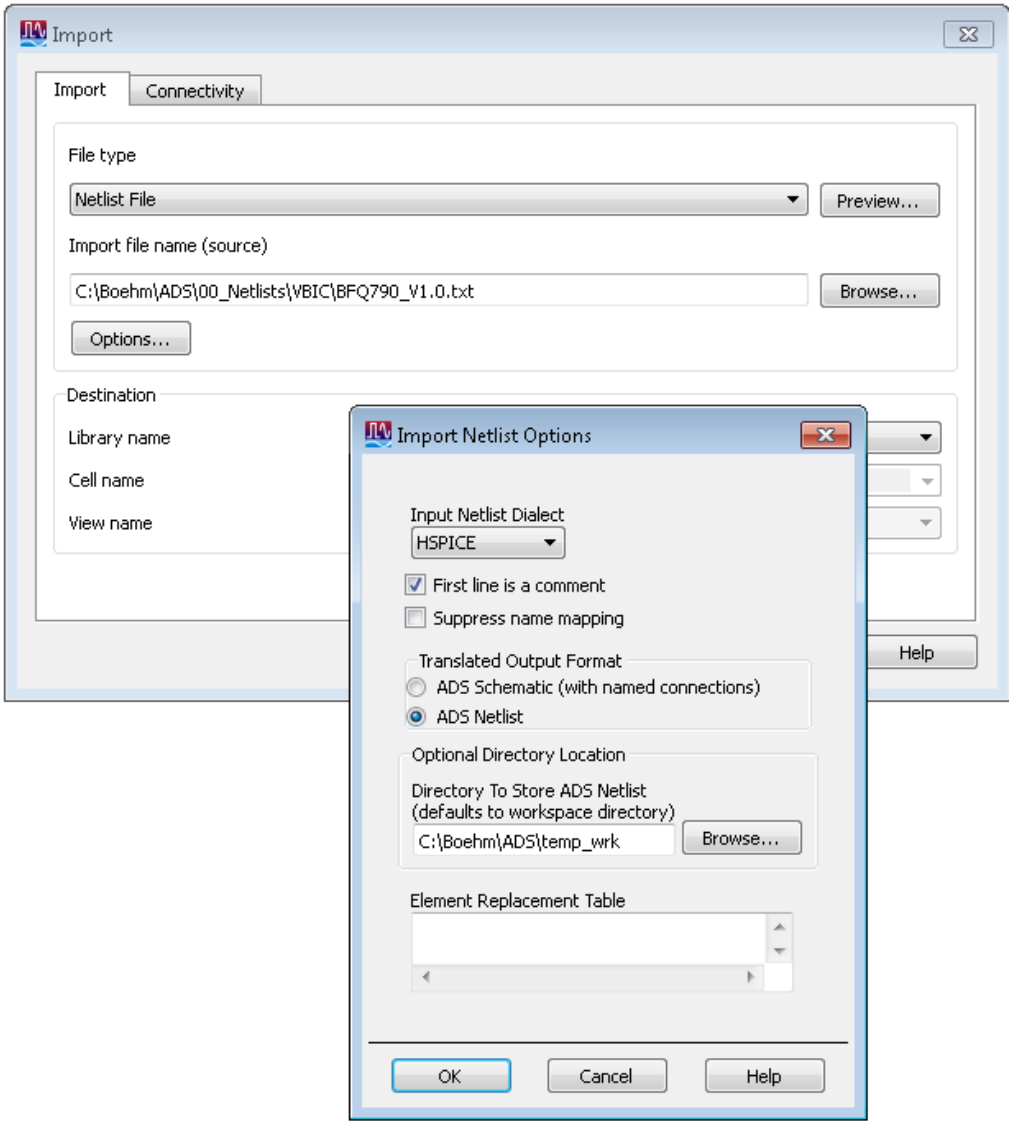
Import HSPICE netlist in ADS / MWO

Import HSPICE netlist in ADS (Advance Design System)

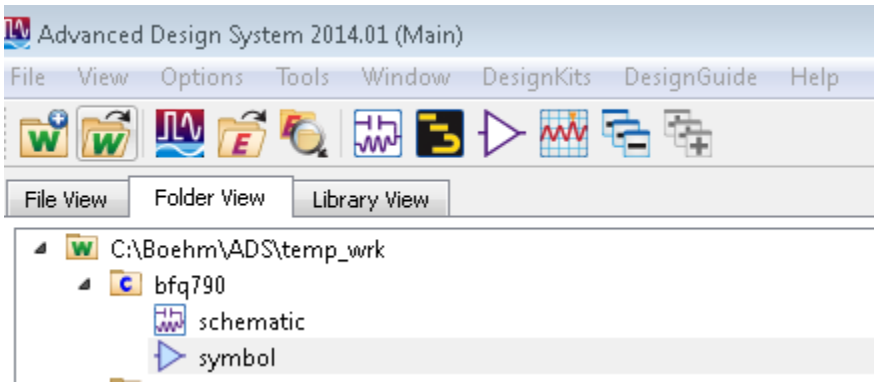
For ADS User (ADS2011 and later) the import of an HSPICE netlist file is to be done by following steps.

1. Step: save the original netlist file in a folder, please read the comments in the netlist carefully and choose different model options. You can for example customize the thermal resistance value to adjust it to your application.

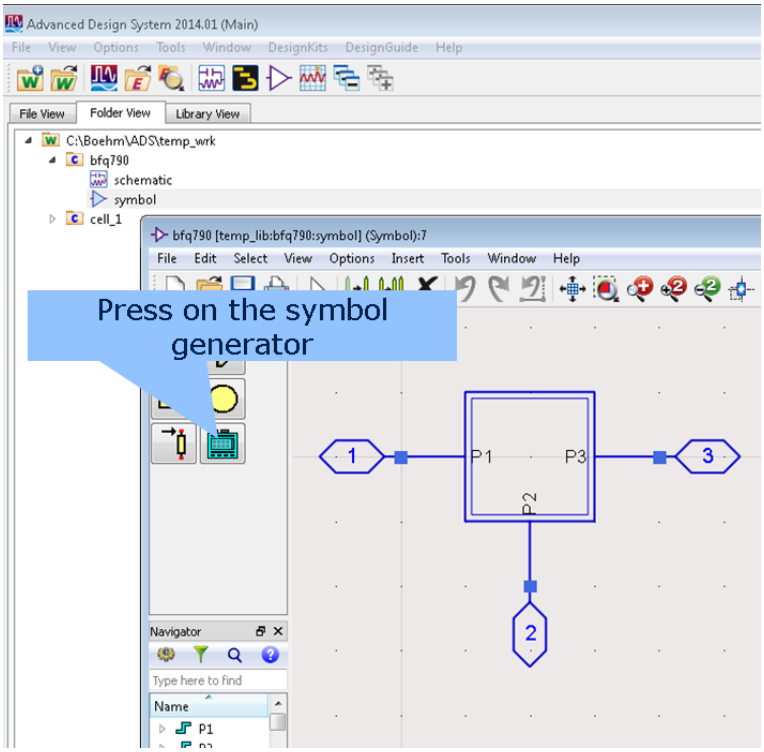
2. Step: Open your ADS workpackage and import the original netlist file (File→Import→Design)



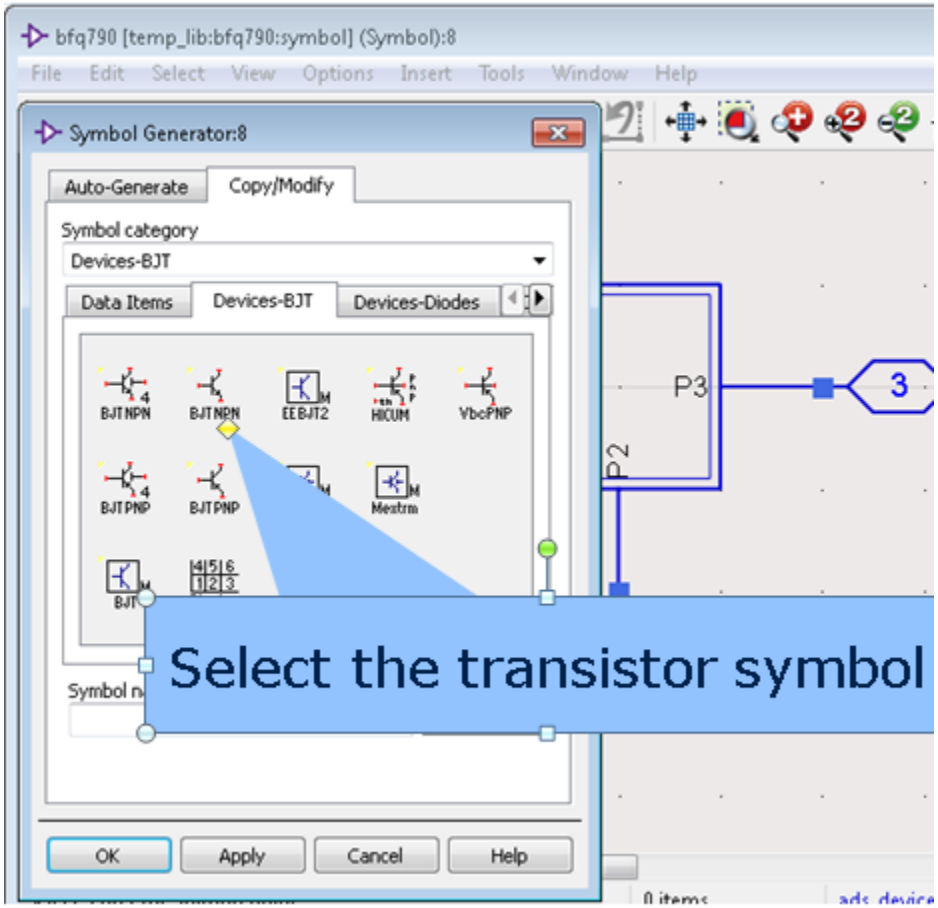
3. ADS netlist file is generated which is placed in the workpackage as a cell



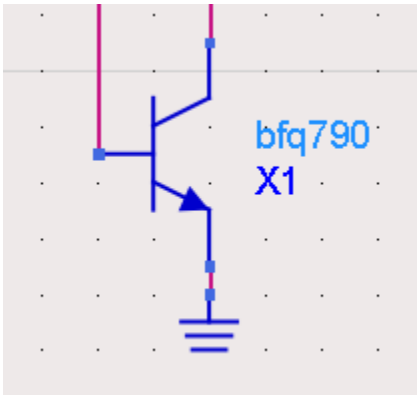
4. You might change the symbol view by opening the symbol



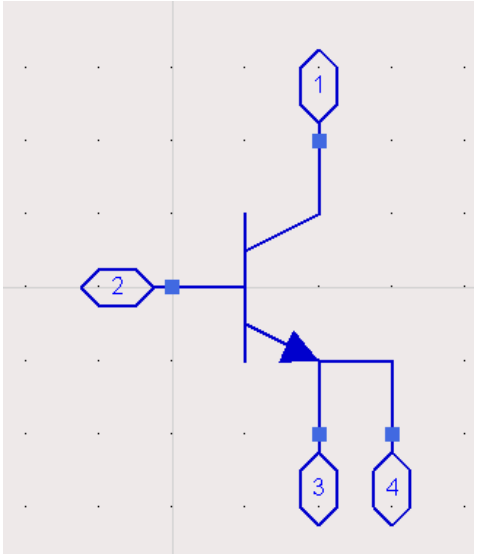
5. Select a npn transistor symbol



6. The model is now accessible for the simulation with an appropriate view



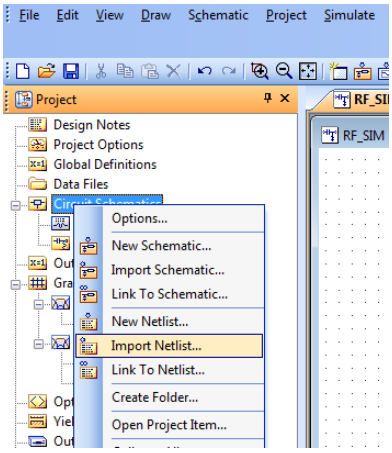
Note: for packages with two emitter pins (like SOT343) you can choose a symbol with four pins or generate one like this



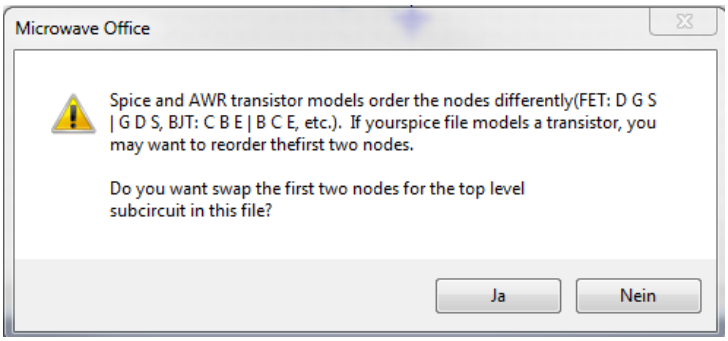
Import HSPICE netlist in MWO (Microwave Office from AWR)

Following steps are required in order to import a SPICE-netlist with the corresponding symbol view for the transistor:

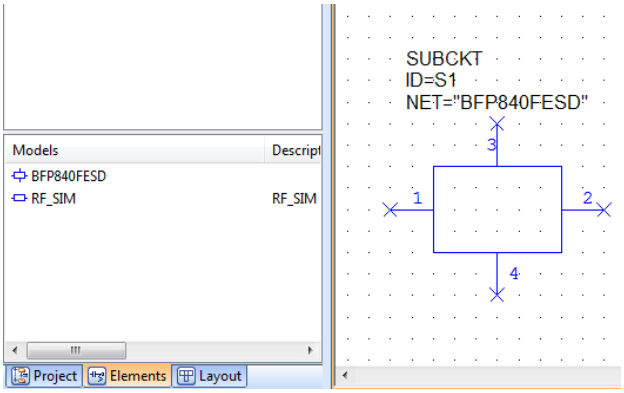
- Open the working project where you want to embed the transistor in your main schematic
- Import the netlist (e.g.: BFP840FESD_spice_v2.txt) by right mouse click on **Circuit Schematics**, then select **Import Netlist** and go to the folder where the netlist (e.g.: BFP840ESD_spice_v2.txt) was stored and select the file.



- A new window is popped up. Choose the **Pspice** netlist format and click ok.
- MWO will ask you whether the first 2 ports should be swapped → Click **yes**

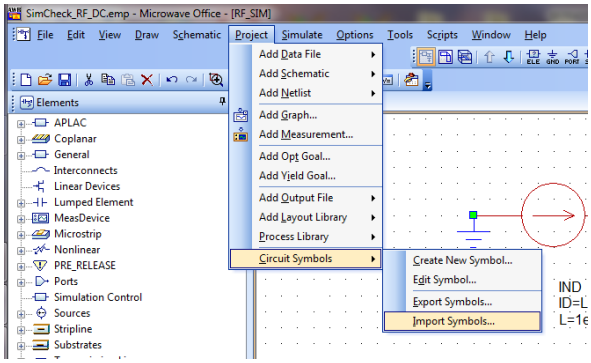


The netlist is now accessible within the elements in “Subcircuits”. Simply drag and place with the mouse the wanted element to your main schematic.

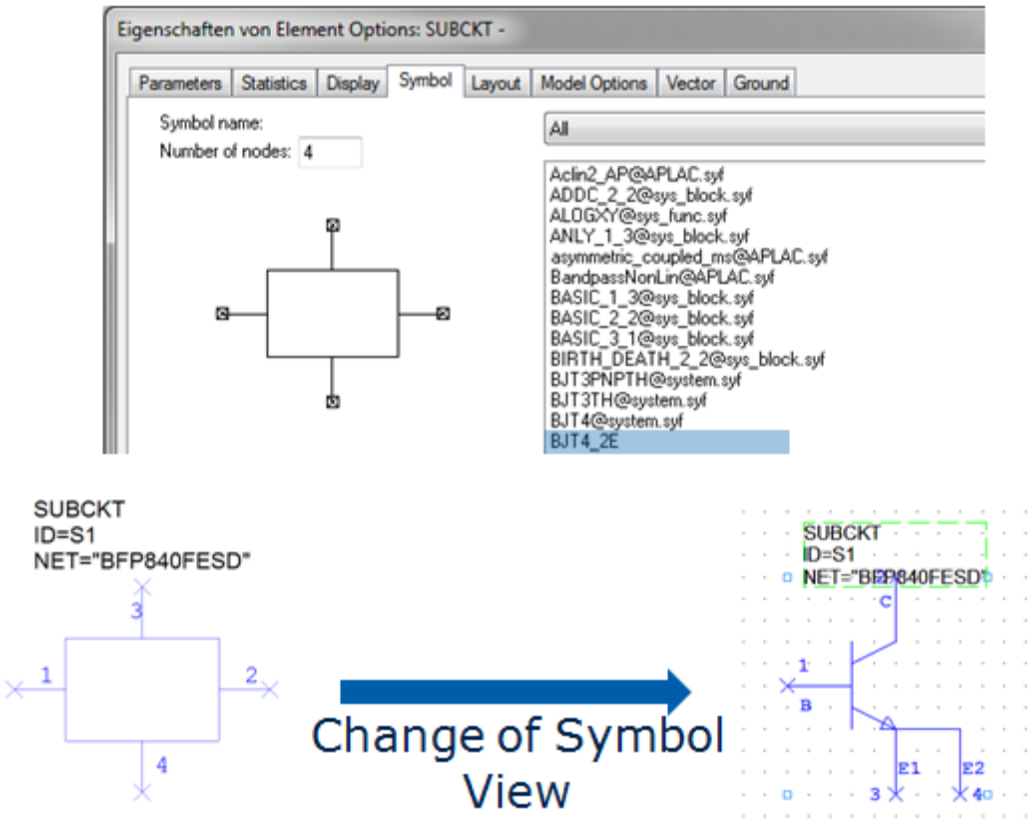


The netlist is still represented by the unwanted default 4-port box representation.

- Import the appropriate symbol for this device which has two emitter pads (**Project → Circuit Symbols → Import Symbols**)
-



- The correct symbol must now be linked to the transistor subcircuit. This is achieved by right click on BFP840ESD and select “properties”. New window is popped up. Now link the symbol BJT_2E to the subcircuit of the transistor.



Munich, the 12-06-2015