# Simulate the function Part 1

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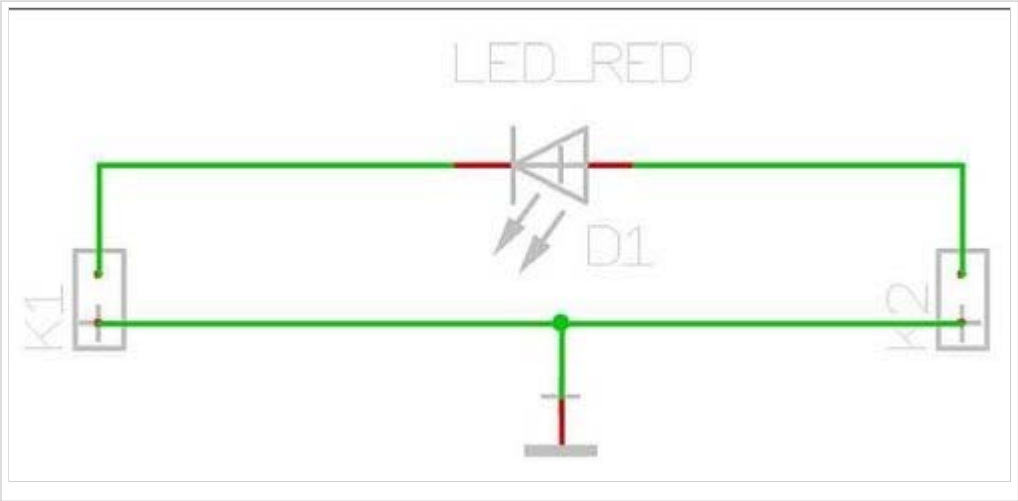
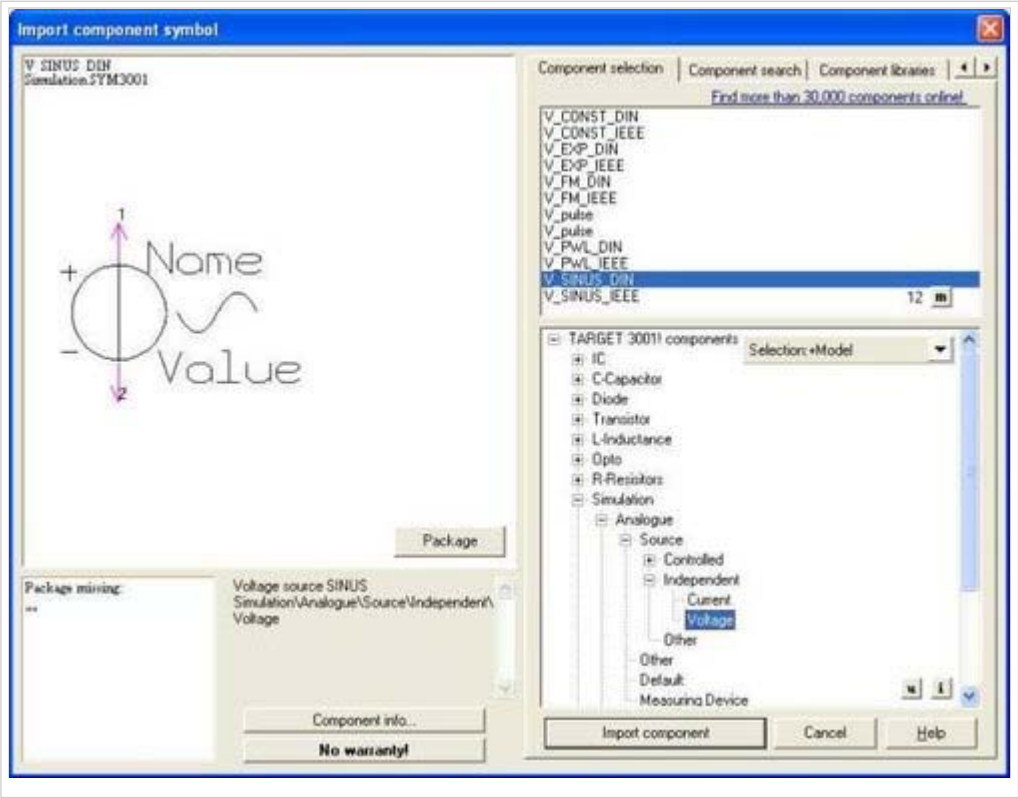
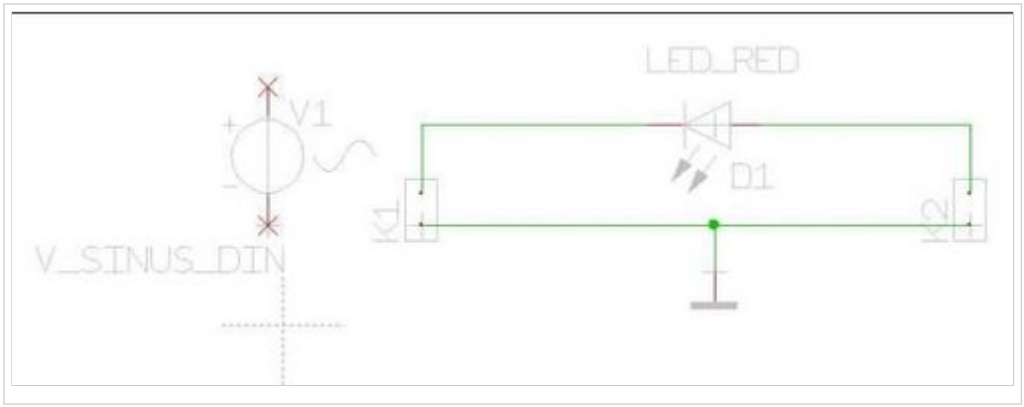
The simulation in TARGET 3001! is a matter of the schematic. So we switch over to it and see our well known picture:

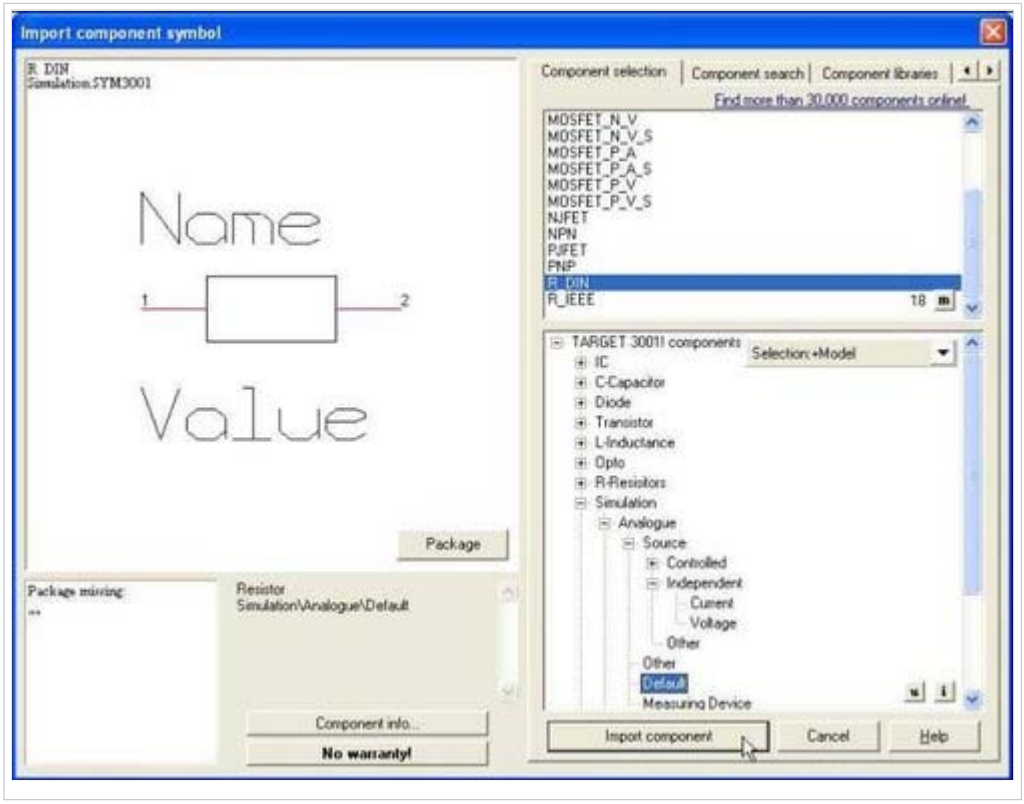


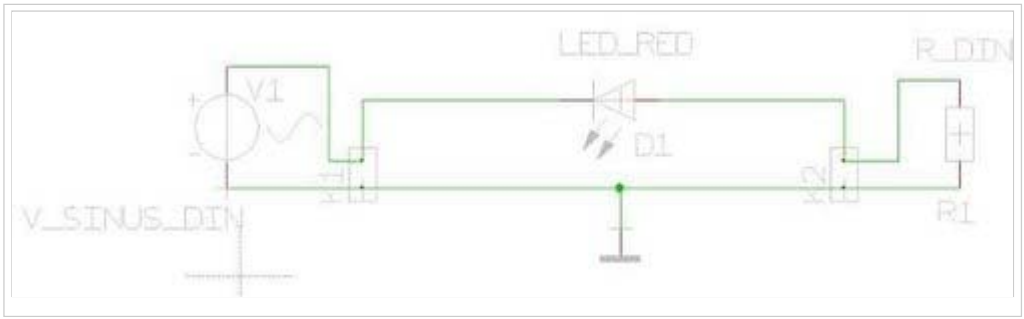

For the simulation of the LED's function we need a voltage source, and a load resistance. Those components will not be part of the layout thus don't have a package. Find such components in the tree view in the branch **Simulation**. First we import a sinus - source, then a resistor.



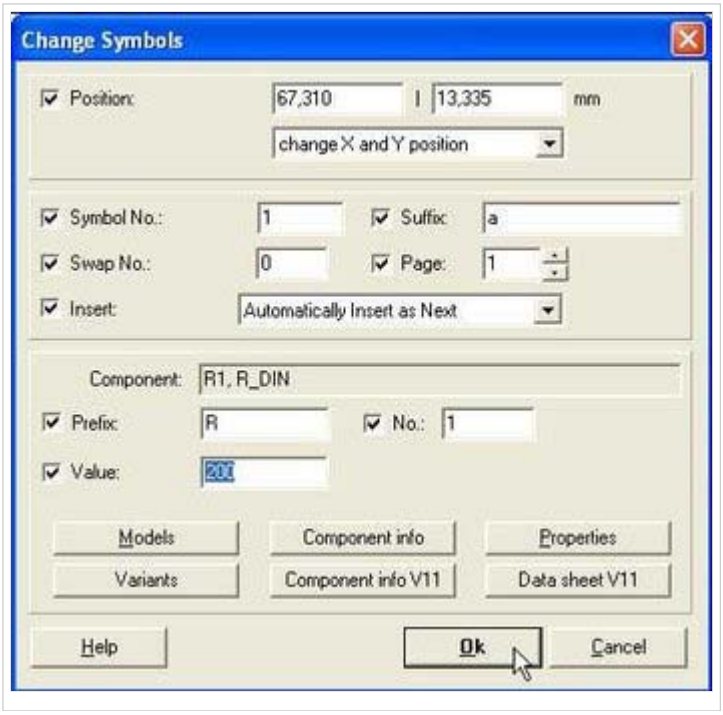



The resistor we pick from the branch Simulation/Analog/Source/Default and connect it accordingly:

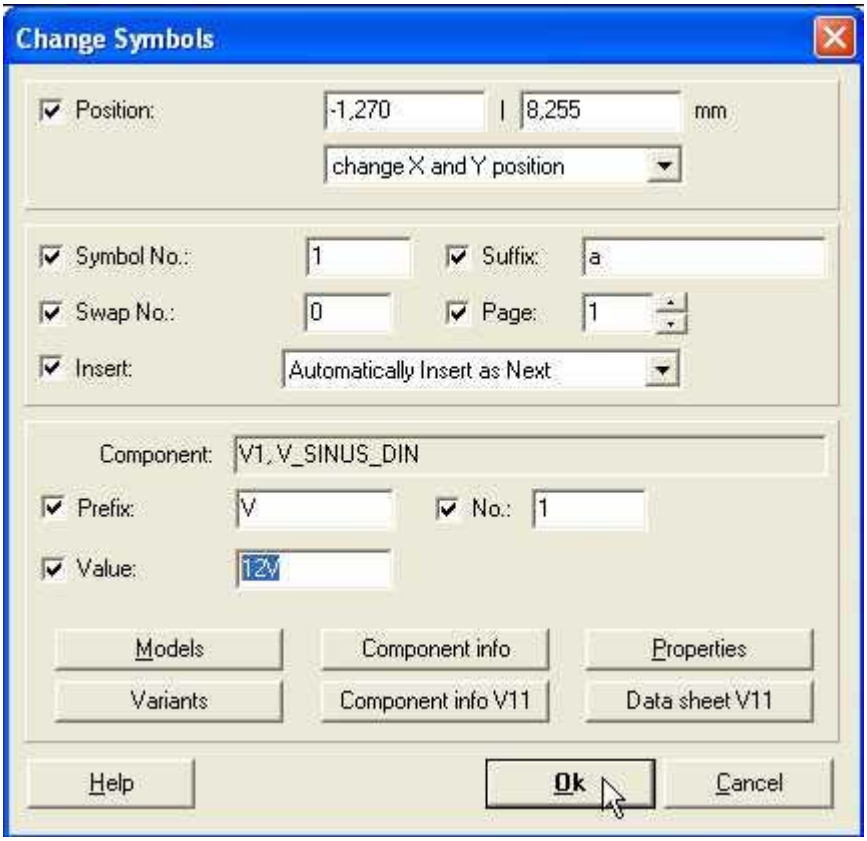


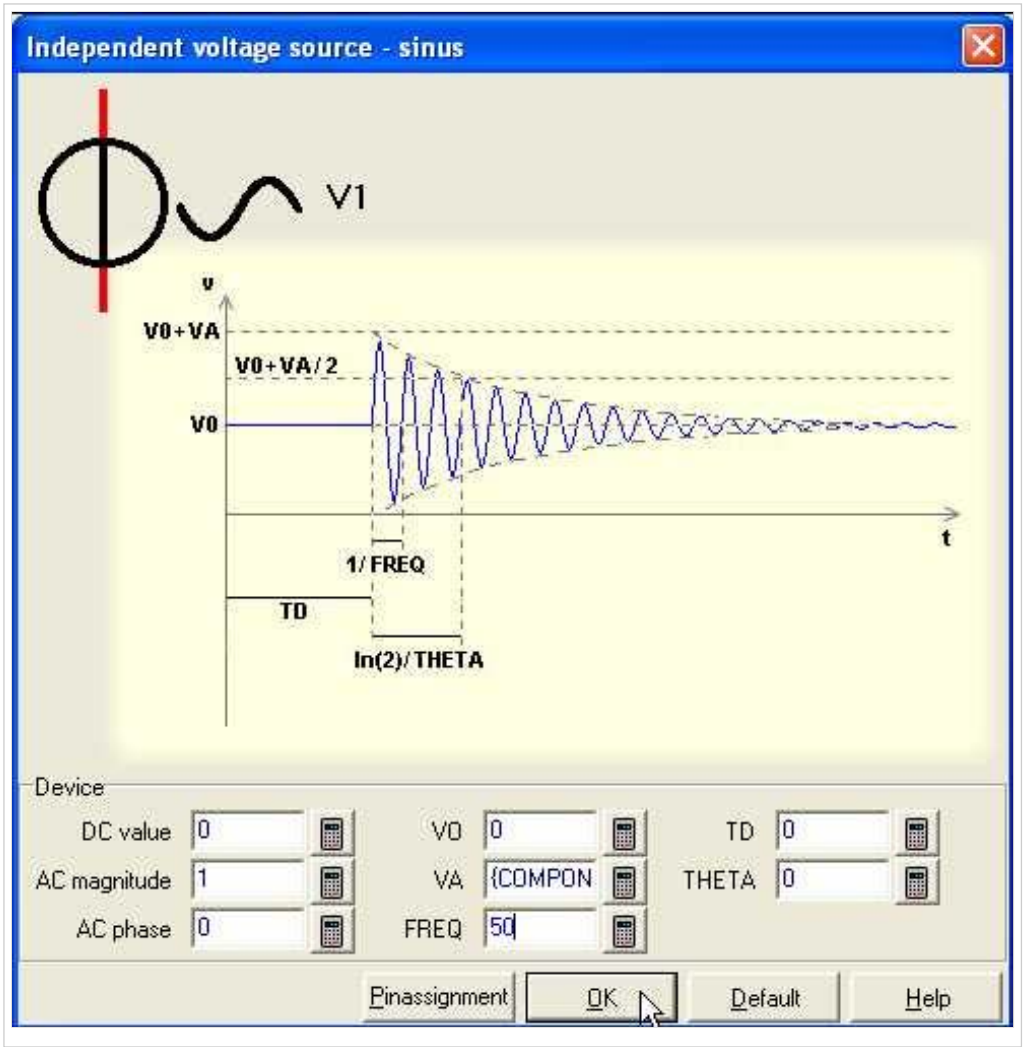

Now we set the values for source and load, first **M11** on the handle cross of the resistor:



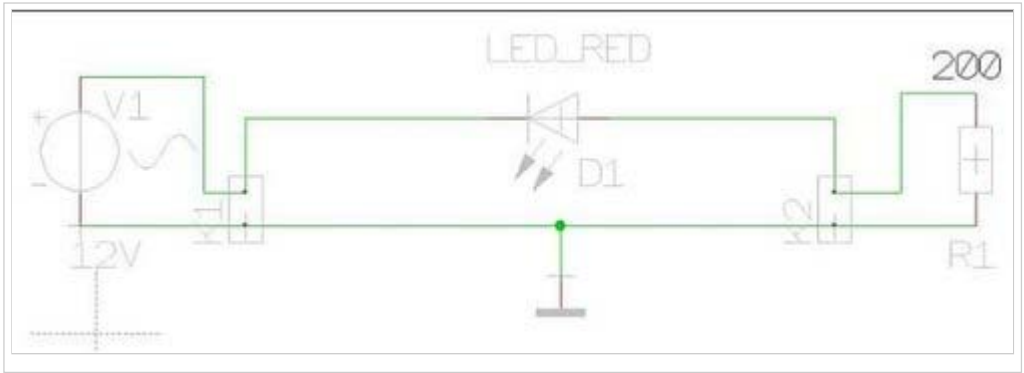

Now we enter component value "200", this stands for 200 Ohm. Press OK. Now press **M11** upon the handle cross of the sinus source:




We define it's component value by 12V. By the use of the "Models" button in the same dialog we set the frequency. In the following dialog press button "Edit". Afterwards a setting of the parameters can be done:




At "FREQ" enter value 50. Now the preliminaries are done. We confirm all dialogs and the schematic might look like this:

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