

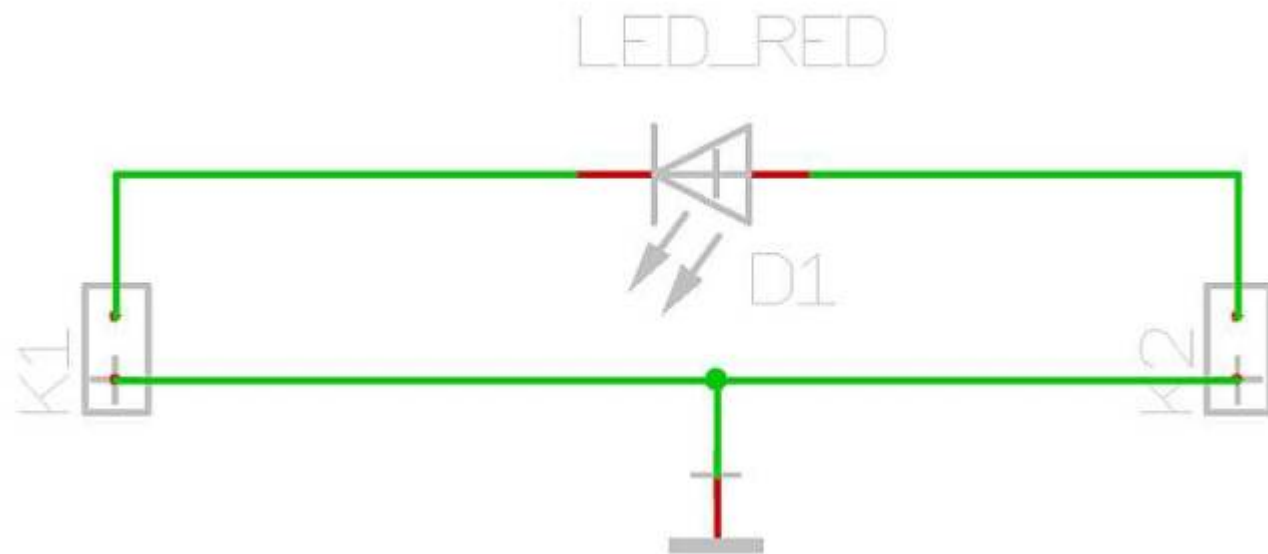
Simulate the function Part 1

From IBF-Wiki

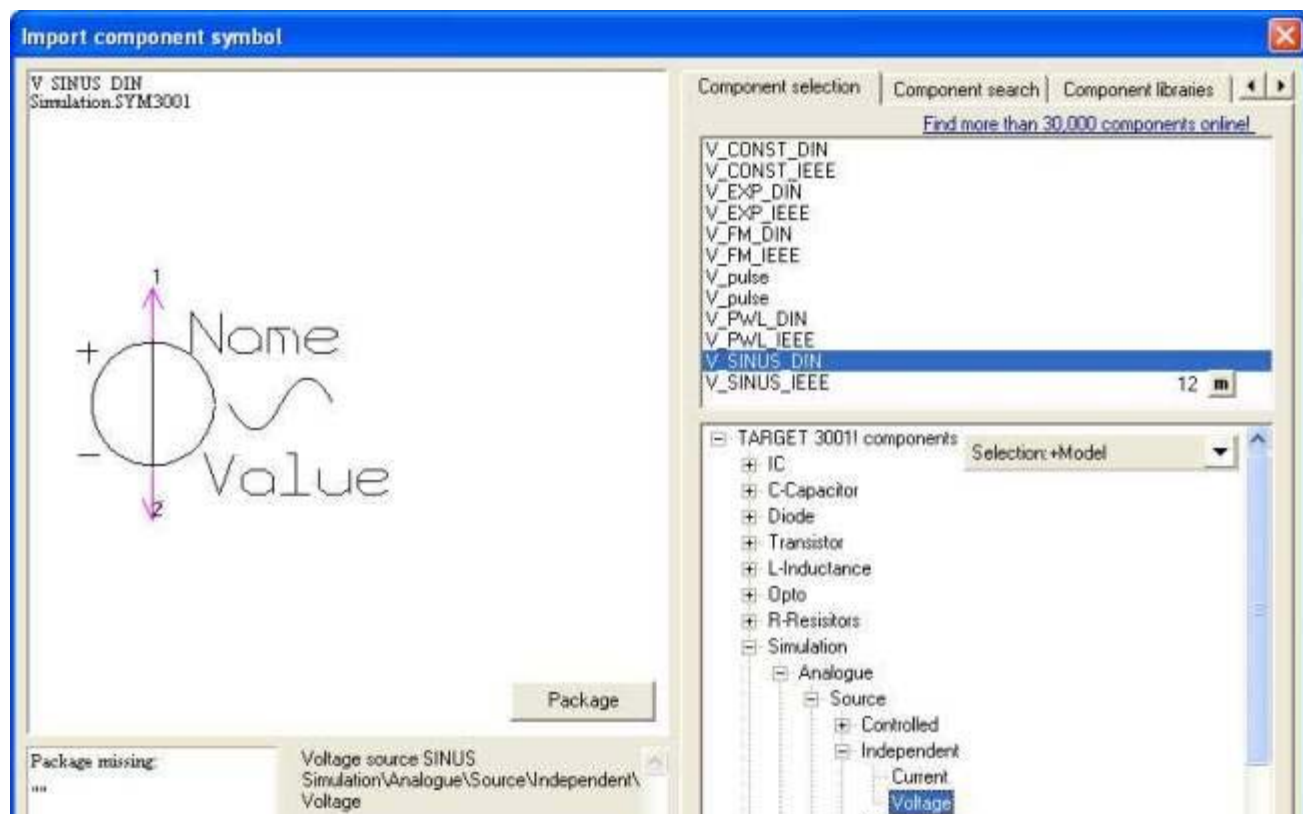
This article is part of an introduction tutorial called CrashCourse2

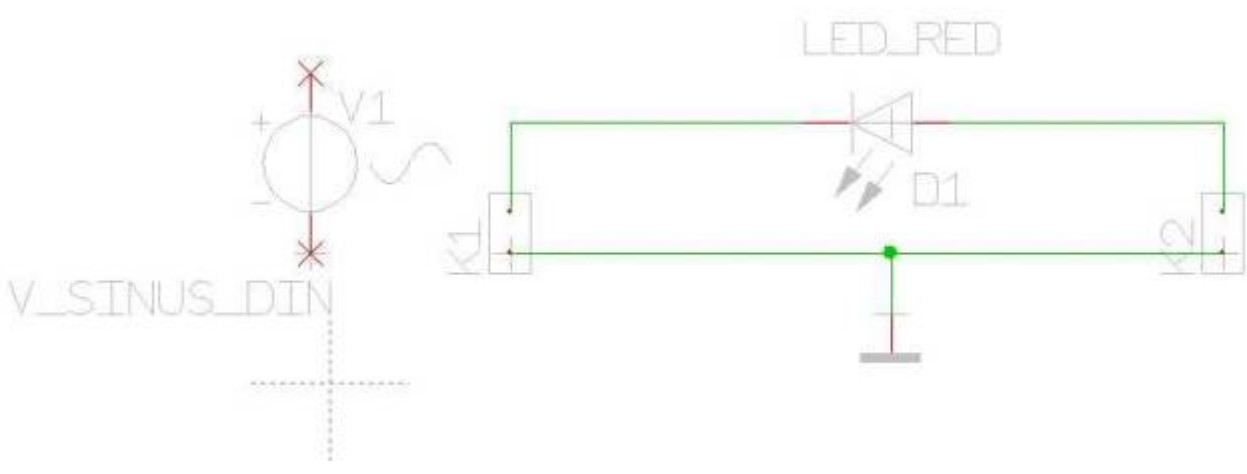
Download this article as PDF-File

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

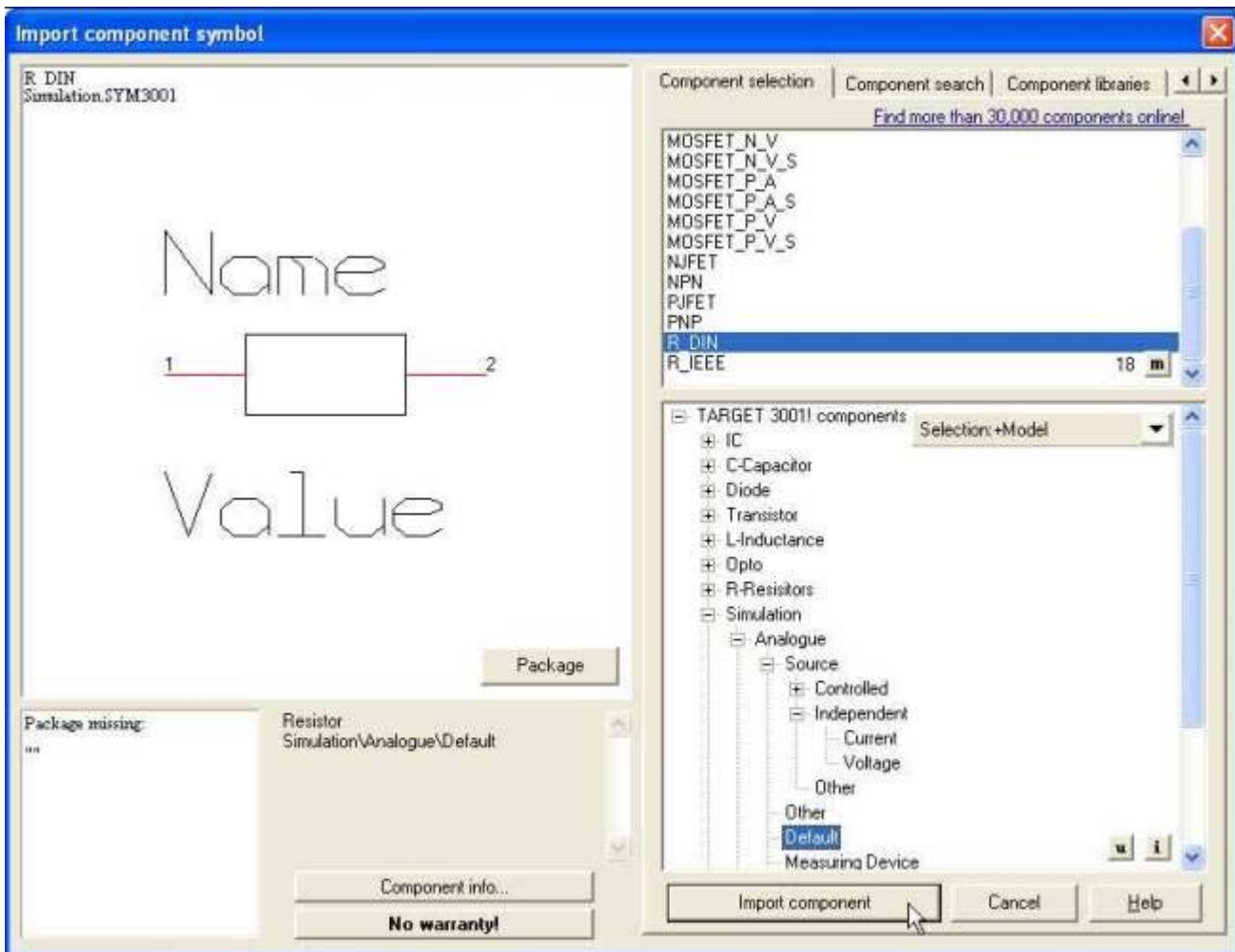


For the simulation of the LED's function we need a voltage source, and a load resistance. Those components will not be part of the layout thus don't have a package. Find such components in the tree view in the branch **Simulation**. First we import a sinus - source, then a resistor.





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





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

Change Symbols

Position: 67,310 | 13,335 mm
change X and Y position

Symbol No.: 1 Suffix: a

Swap No.: 0 Page: 1

Insert: Automatically Insert as Next

Component: R1, R_DIN

Prefix: R No.: 1

Value: 200

Models Component info Properties
Variants Component info V11 Data sheet V11

Help **Ok** Cancel

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

Change Symbols

Position: -1,270 | 8,255 mm
change X and Y position

Symbol No.: 1 Suffix: a

Swap No.: 0 Page: 1

Insert: Automatically Insert as Next

Component: V1, V_SINUS_DIN

Prefix: V No.: 1

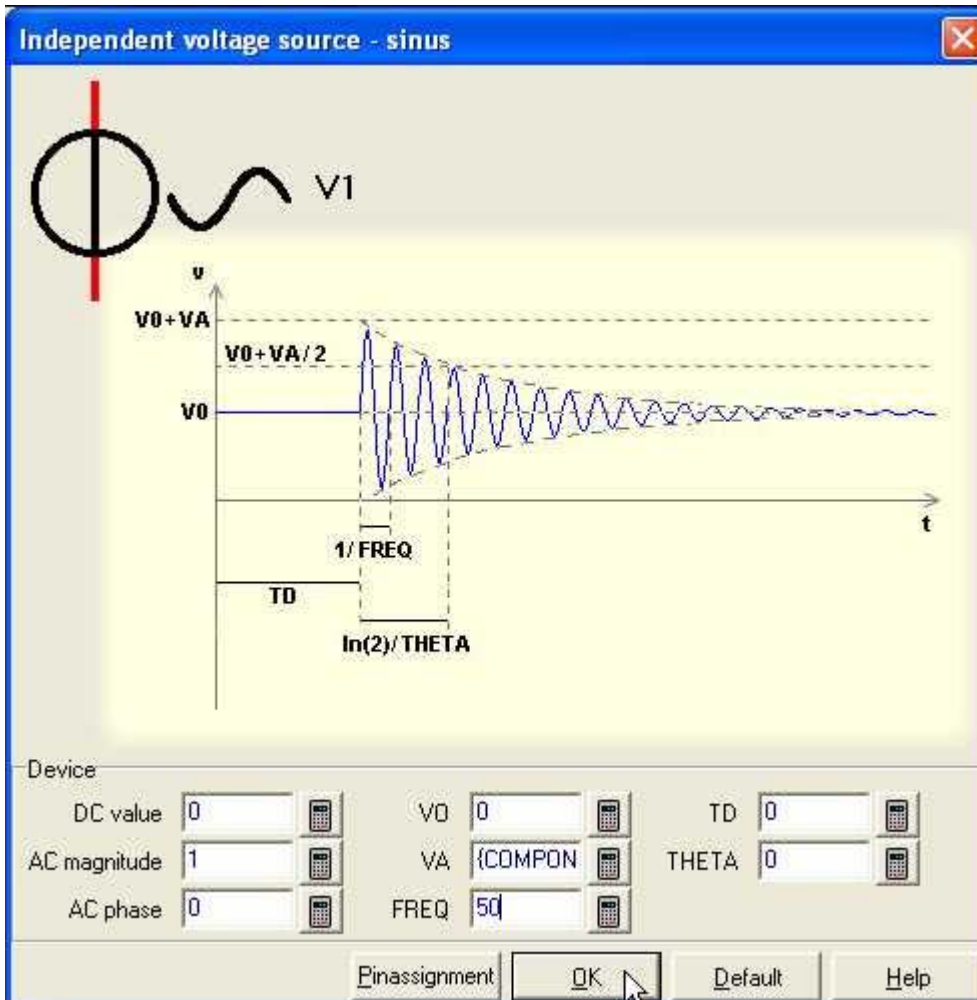
Value: 12V

Models Component info Properties
Variants Component info V11 Data sheet V11

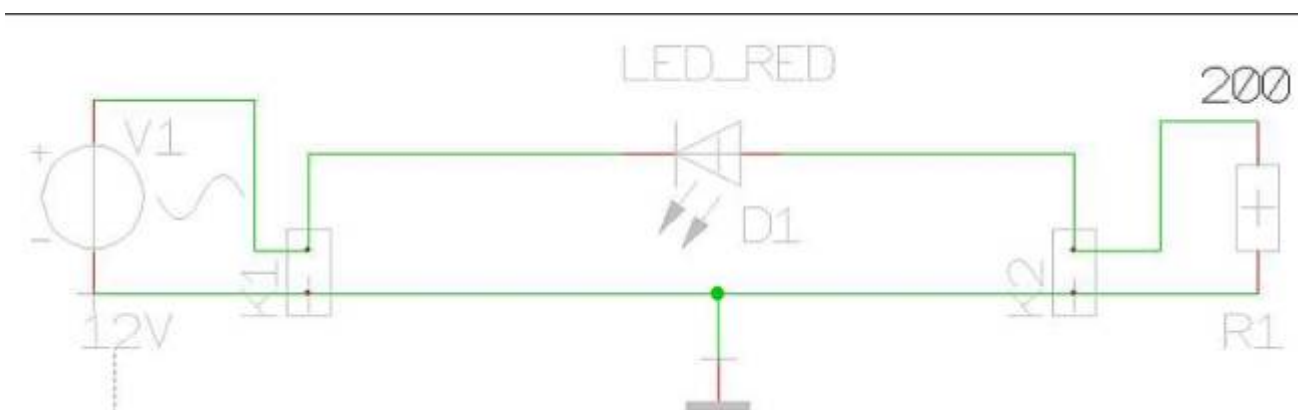
Help **Ok** Cancel



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:





[Next step](#)
[One Step back](#)

[Back to the overview](#)

Retrieved from "http://ibfriedrich.dyndns.org/wiki/ibfwikien/index.php?title=Simulate_the_function_Part_1"

Categories: Simulation

-
- This page was last modified 10:21, 30 August 2007.