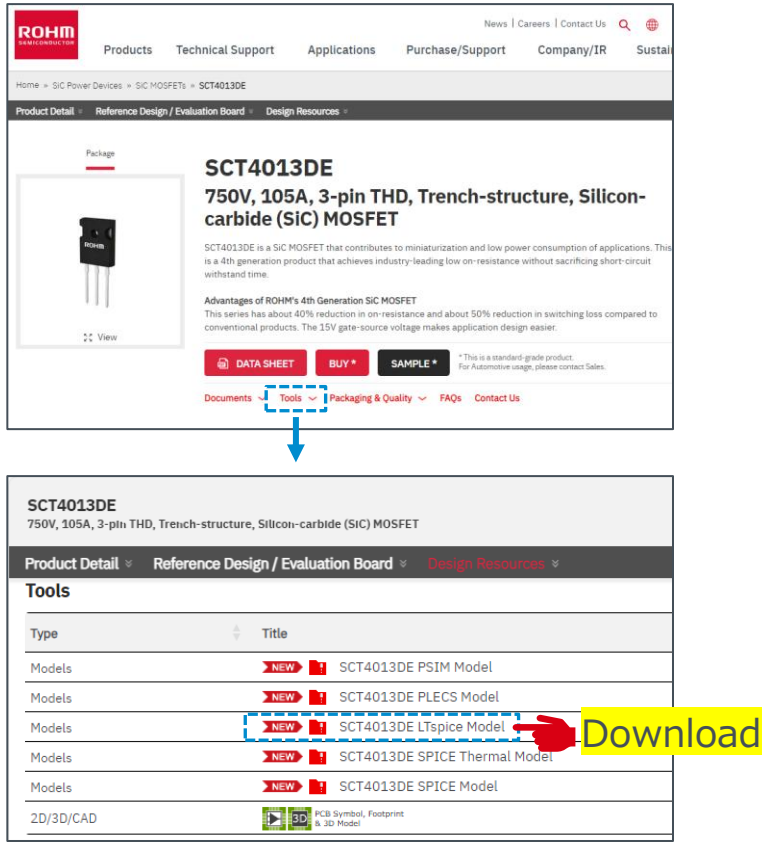
How to add (change) a new component

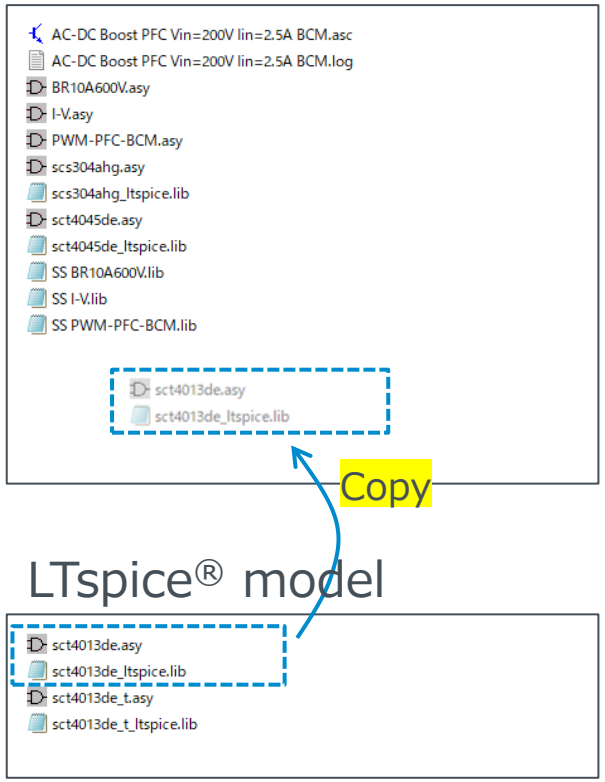
Download LTspice® model from ROHM website.

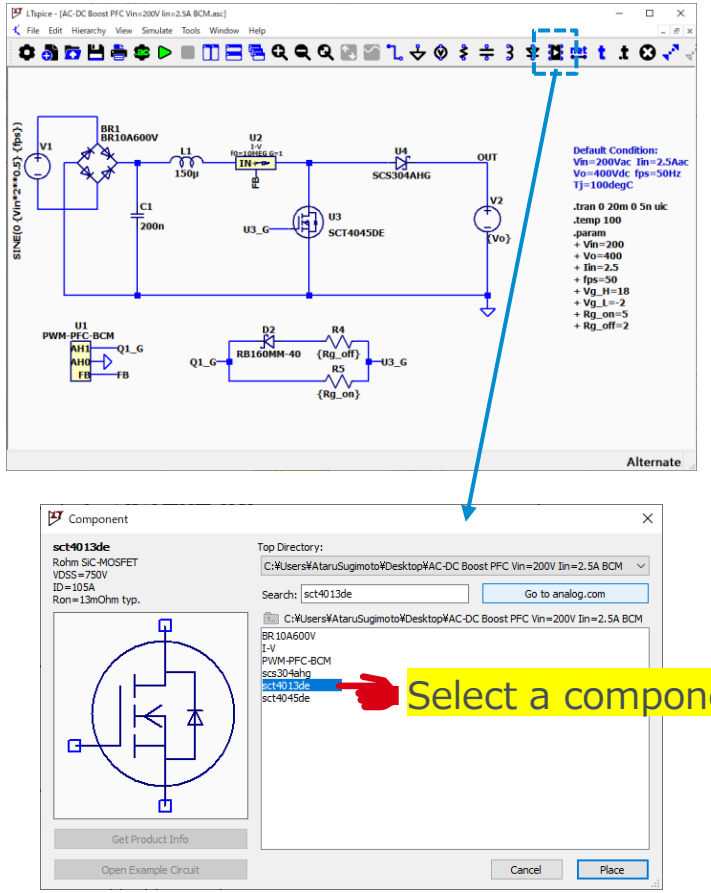
Save LTspice® model in the same folder as the schematic file.

Click on the “Component” icon from the toolbar to add a new component to the schematic.



LTspice® schematic file





How to change the Simulation Conditions

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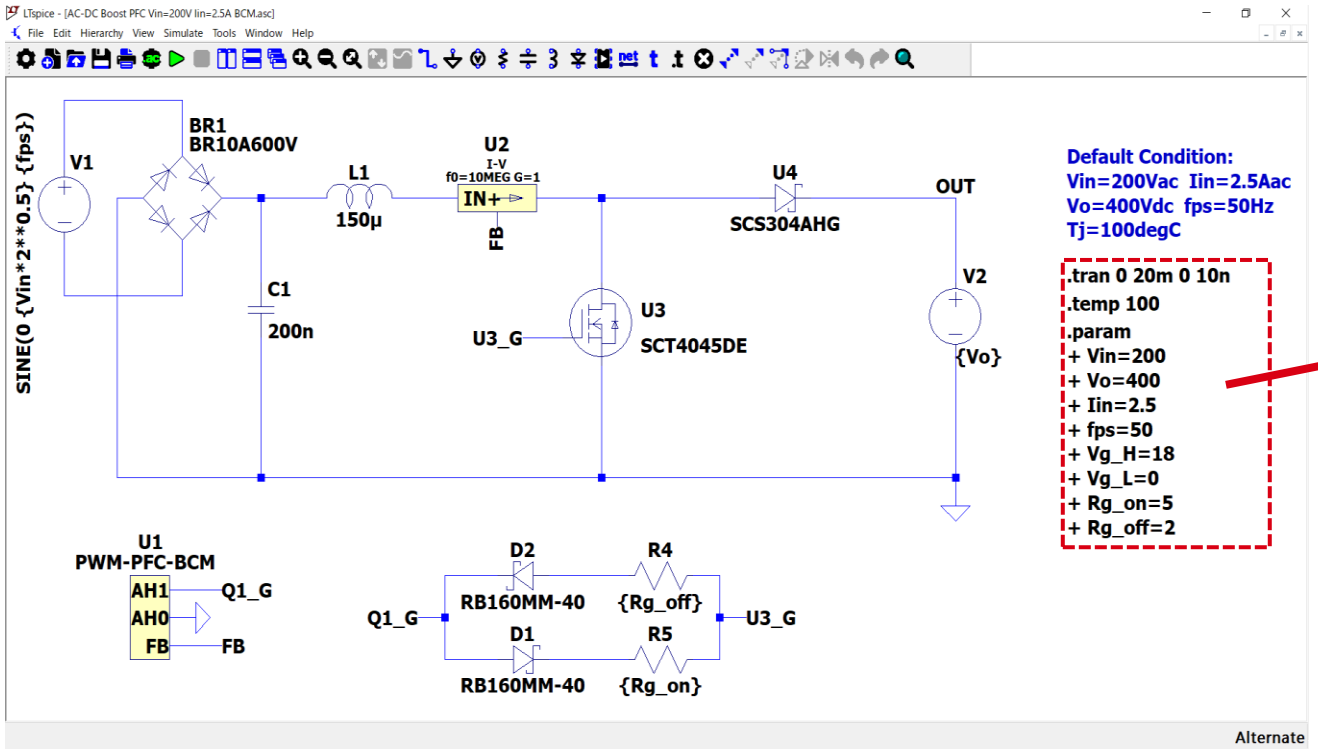
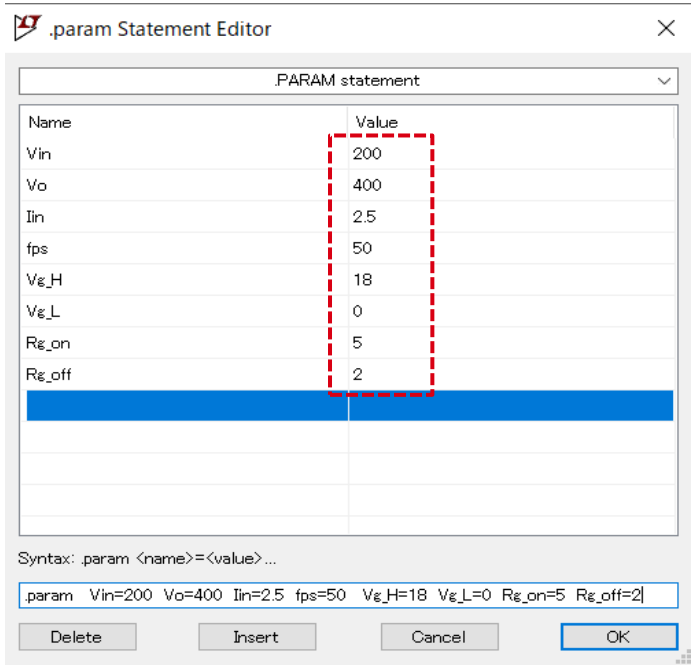
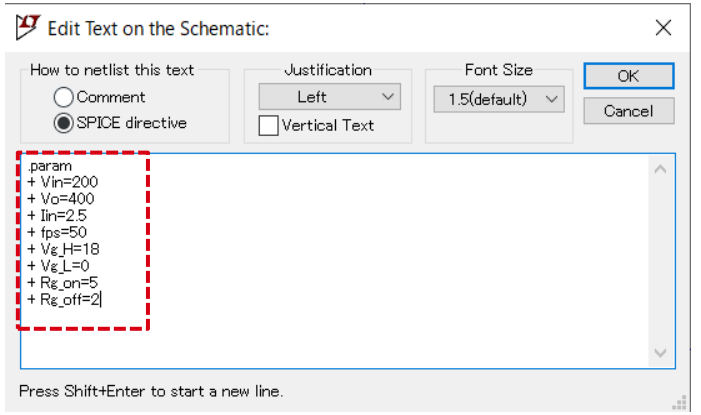
Simulation Schematic





or



Right-click on the ".param" text on the schematic to launch the ".param Statement Editor" or "Text Editor. Change the parameters as necessary.

B-004. 1-Phase 2-level full Bridge Inverter Pout=20kW(HSDIP)

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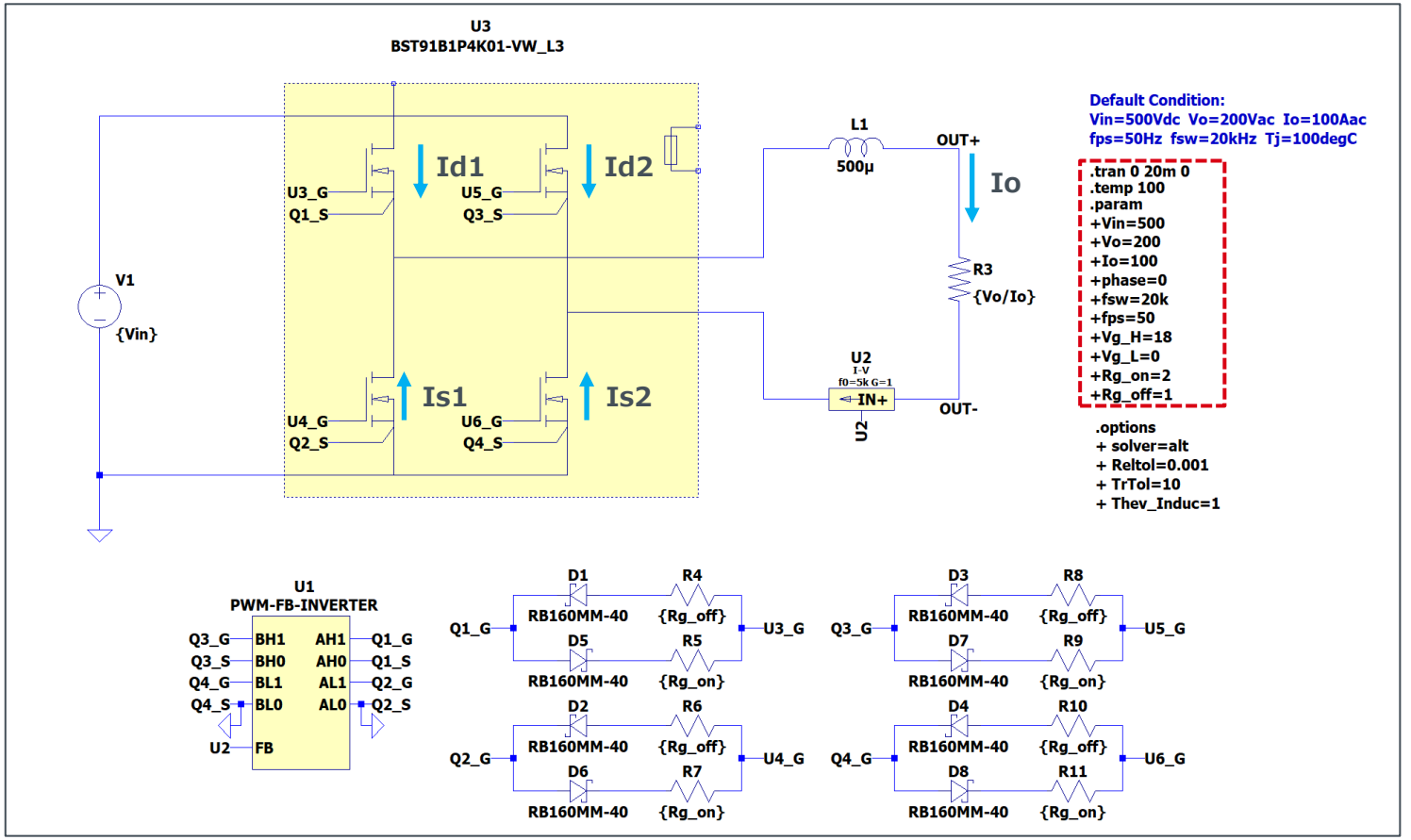
Simulation Parameters

Param name	Unit	Description
Vin	V	Input Voltage
Vo	V	Output Voltage
fps	Hz	Commercial power frequency
Iin	A	Input current
Io	A	Output current
fsw	Hz	Switching frequency
Vg_H	V	Gate Drive Voltage High
Vg_L	V	Gate Drive Voltage Low
Rg_on	Ω	Gate Resistance On
Rg_off	Ω	Gate Resistance Off

Devices

Instance name	Type	Default
U3	SiC Power Module	BST91B1P4K01-VW
D1~D8	SBD	RB160MM-40

Simulation Schematic



You can download and exchange other component models. See the link below for details.

[How to Use LTspice® Models](), [Design Simulation Models]() : English version

[LTspice®モデルの使い方](), [デザインモデル]() : 日本語版

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Simulation Result Waveform1

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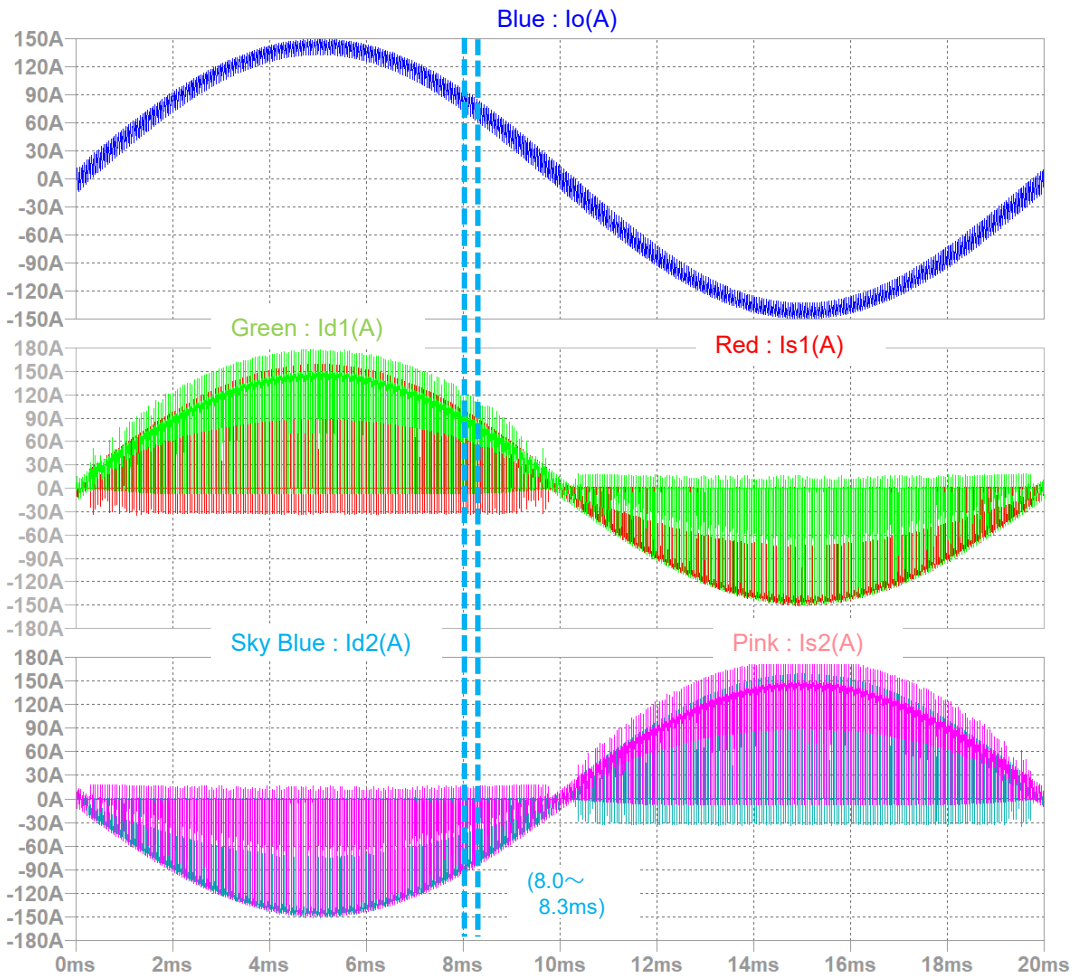
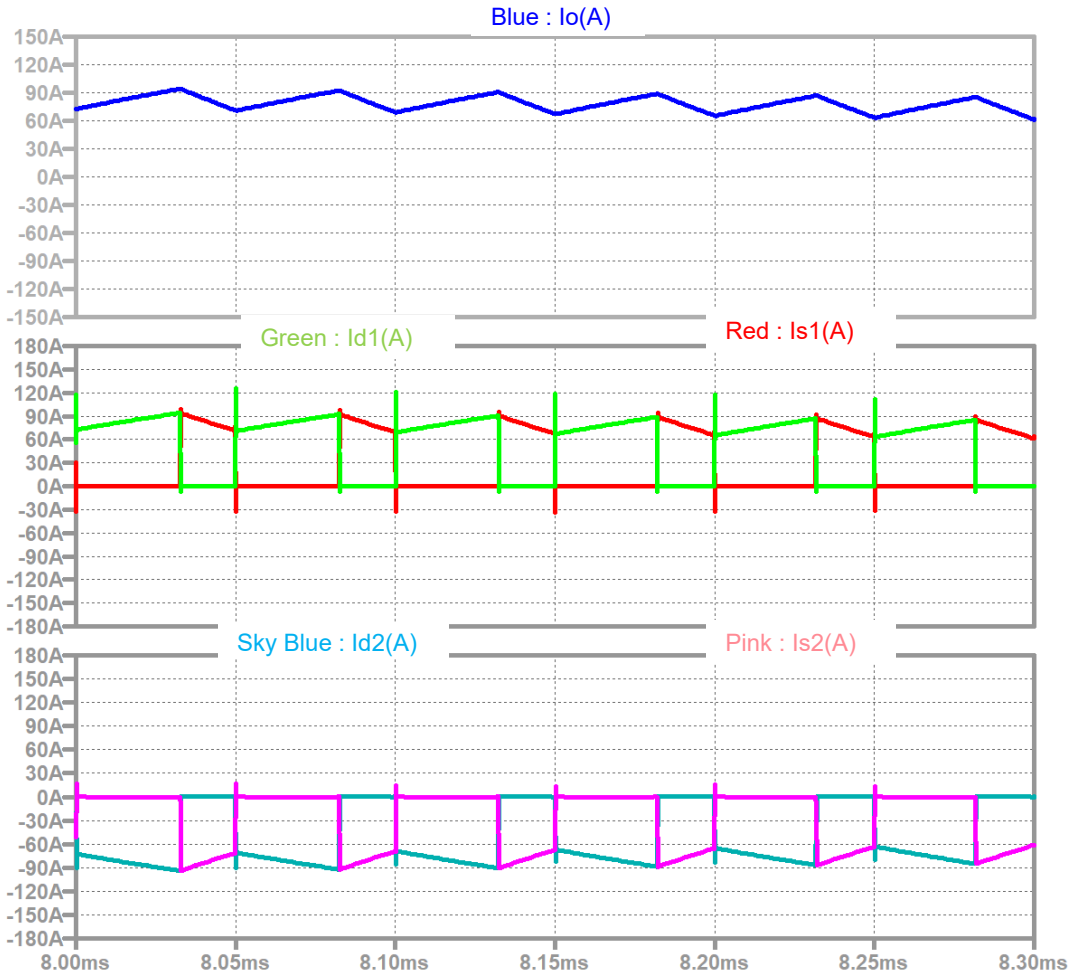
U3 : SiC Power Module

Vin=500V Po=20kW
Io=100A Tj=100℃

Io,Id1,Is1,Id2,Is2



Expansion (8.0～8.3ms)



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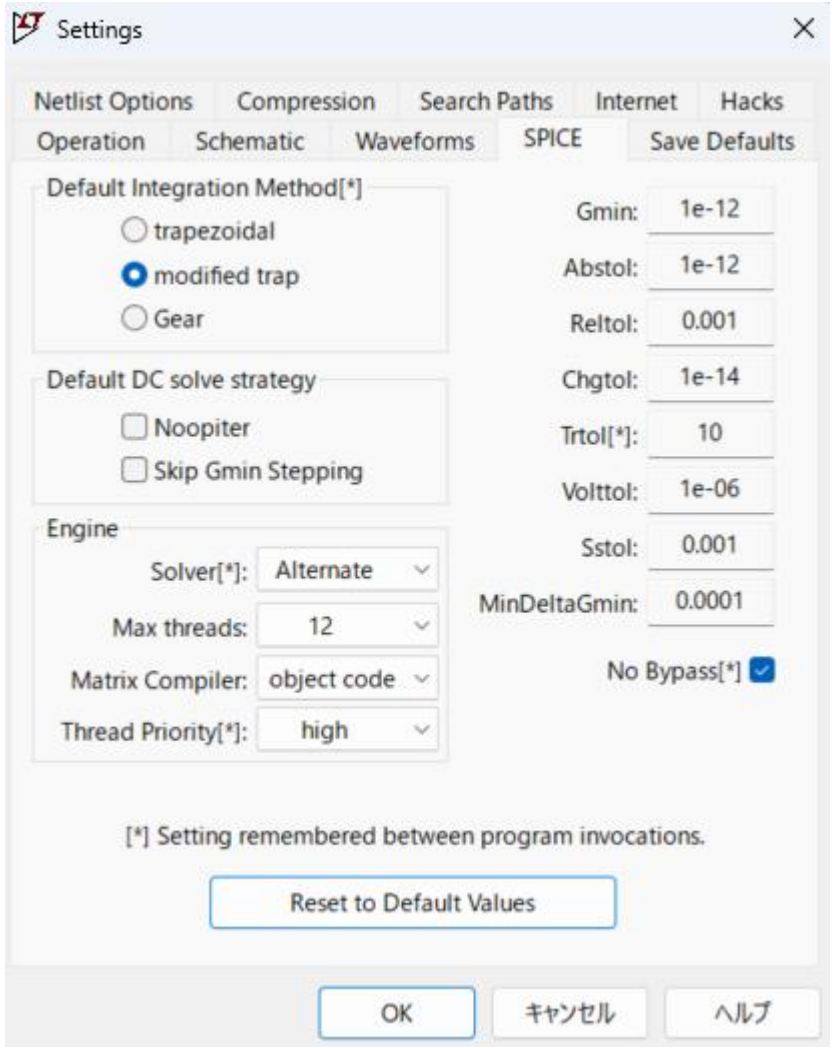
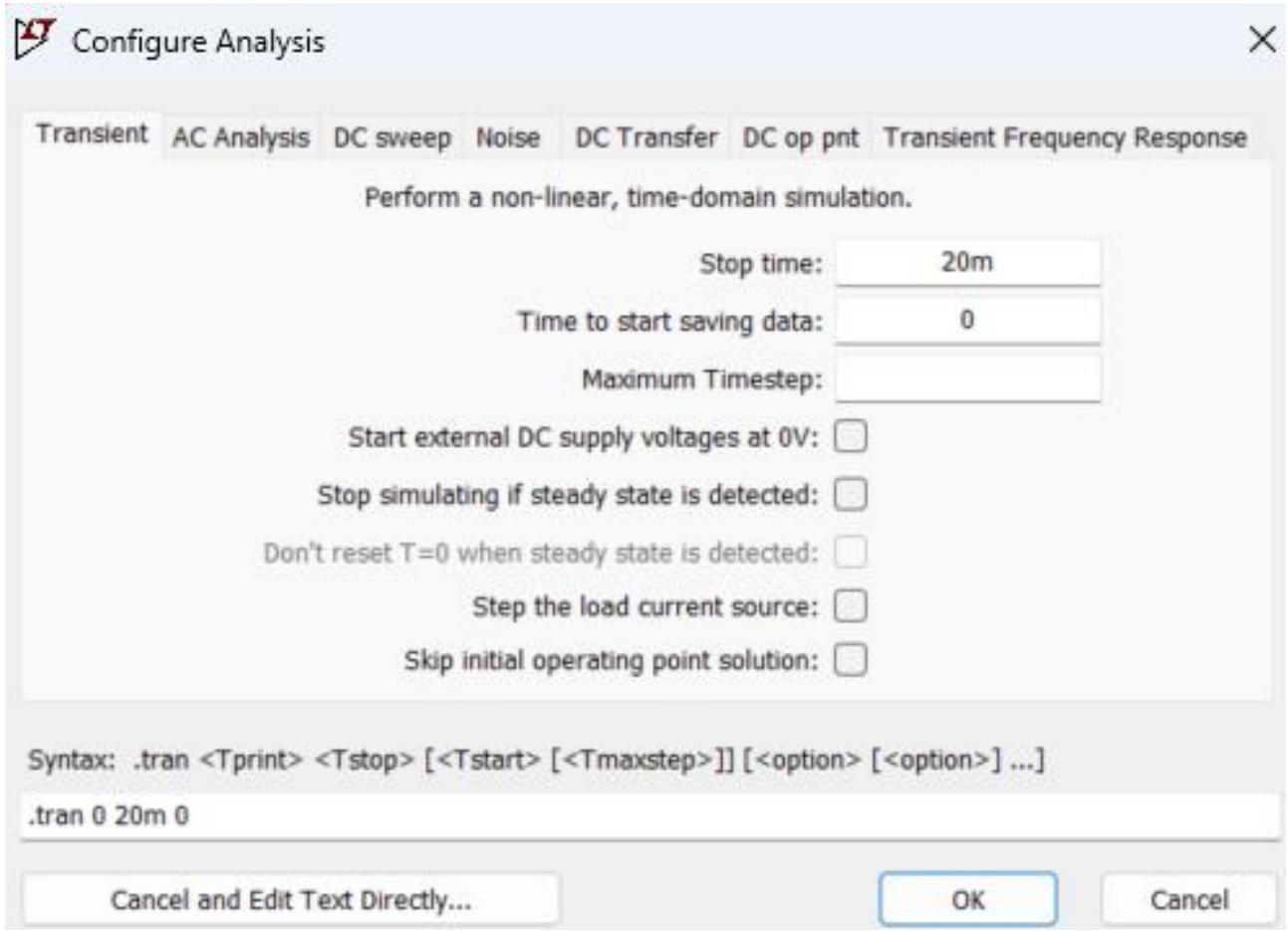
Default setting





※LTspice version:24.1.3

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