

LTspice Model Buck Converter MPS MP9942GJ

Model Information

Model An original macro model
Call Name MDC_MP9942GJ_LT
Pin Assign 1:PG 2:IN 3:SW 4:GND 5:BST 6:EN/SYNC 7:VCC 8:FB
File List Model Library MDC_MP9942GJ_LT01.lib
Model Report MDC_MP9942GJ_LT.pdf (this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Unknown
- Product name MP9942GJ
- Company name Monolithic Power Systems, Inc.
- Characteristics Transient, Line regulation, Load regulation

Simulation Condition

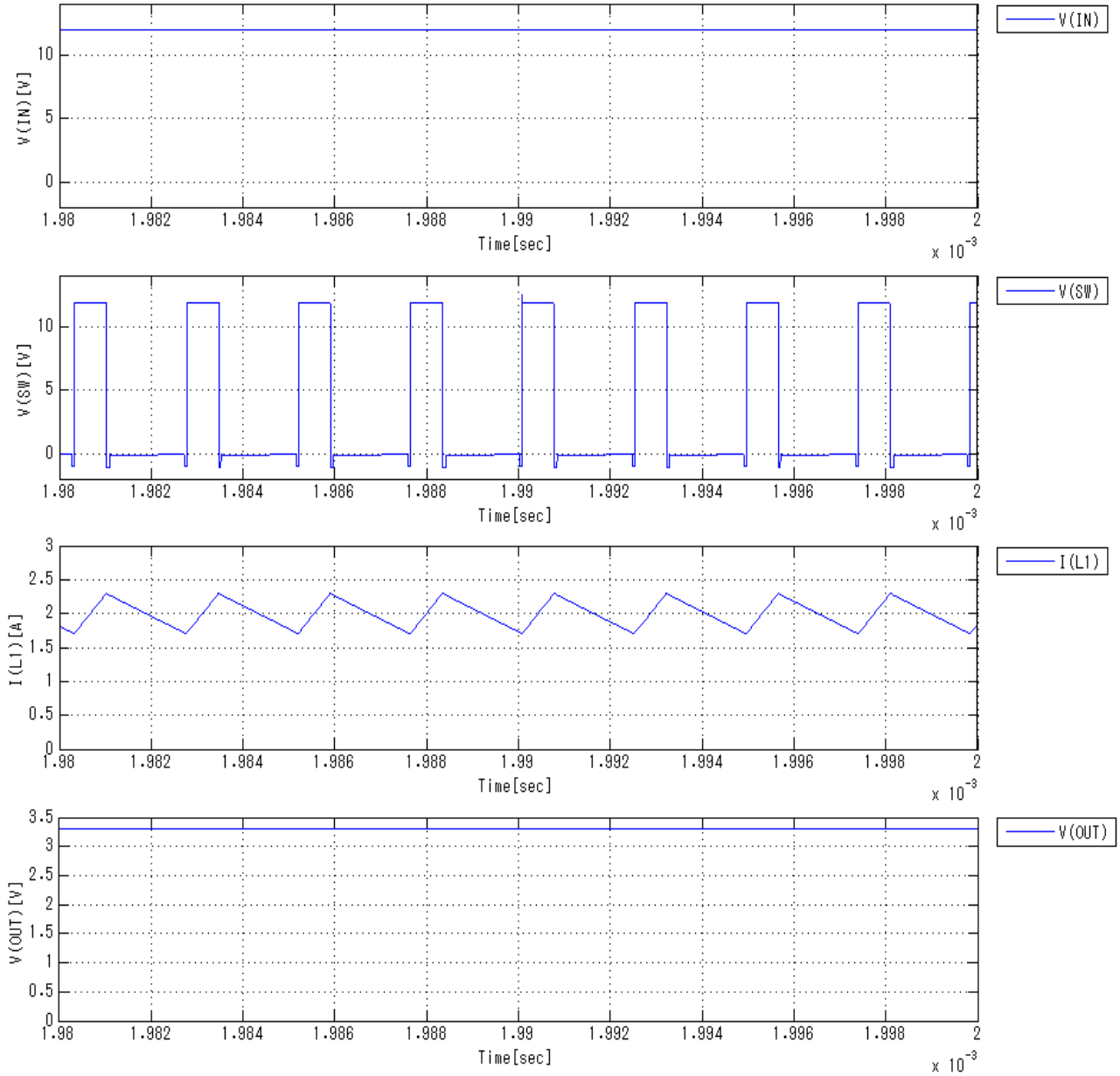
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.
 Explanatory notes — : simulated

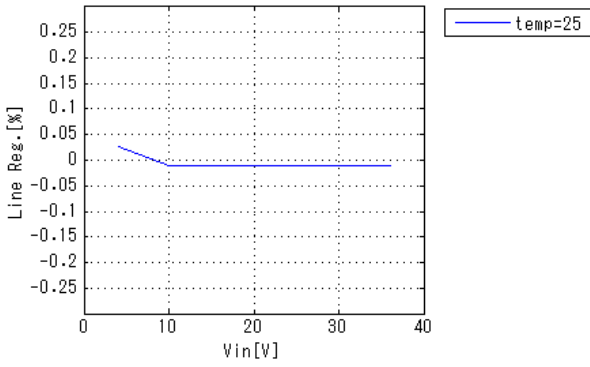
Transient

Temp. = 25deg C

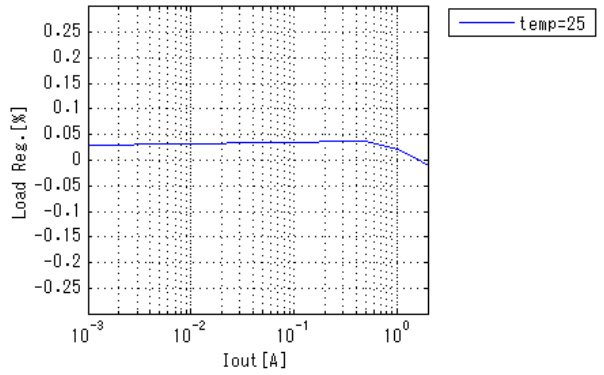


Simulation results are following.
Explanatory notes — : simulated

Line regulation



Load regulation



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