

LTspice Model

LDO (Low Drop Out)

MPS

MP20051DN

Model Information

Model An original macro model
Call Name MDC_MP20051DN_LT
Pin Assign 1:OUT 2:OUT 3:FB 4:GND 5:EN 6:NC 7:IN 8:IN
File List Model Library MDC_MP20051DN_LT01.lib
 Model Report MDC_MP20051DN_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 1.2
- Product name MP20051DN
- Company name Monolithic Power Systems, Inc.
- Characteristics Vdiflout[Temp],Line regulation,Load regulation

Simulation Condition

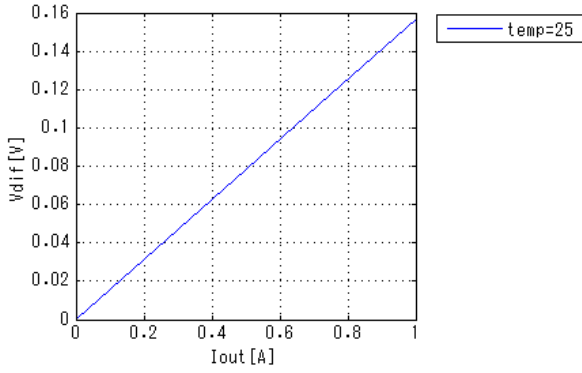
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.
Explanatory notes — : simulated

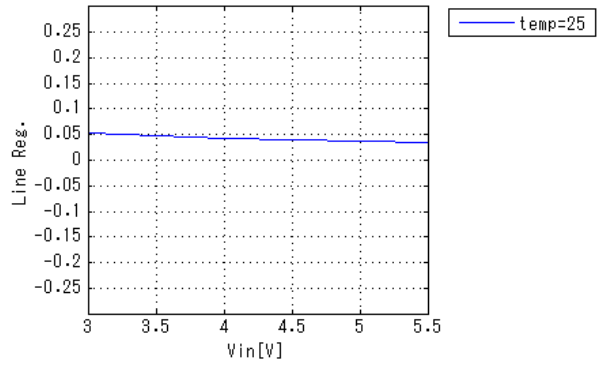
Vdiflout[Temp]

Temp. = 25deg C



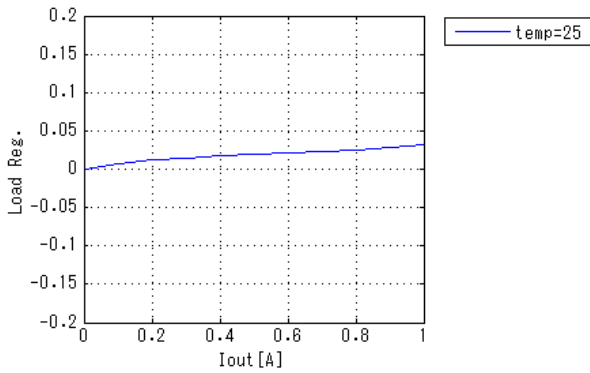
Line regulation

Iout = 3.0A



Load regulation

Vin = 0.001V



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