

LTspice Model LDO STMicroelectronics L78L05ABUTR

Model Information

Model A macro model

Call Name MDC_L78L05ABUTR_LT Pin Assign 1:VOUT 2:GND 3:VIN

File List Model Library MDC_L78L05ABUTR_LT01.lib

Model Report MDC_L78L05ABUTR_LT.pdf(this file)

Verified Simulator Version LTspiceXVII

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Rev.24

Product nameCompany nameL78L05ABUTRSTMicroelectronics

[Characteristics listed]

CharacteristicsVIN-VOUT,Vdrop,Ilimit

Line-Reg,Road-Reg Ripple Rejection

Simulation Condition

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

Item	Condition	Unit
Temperature	25	deg C

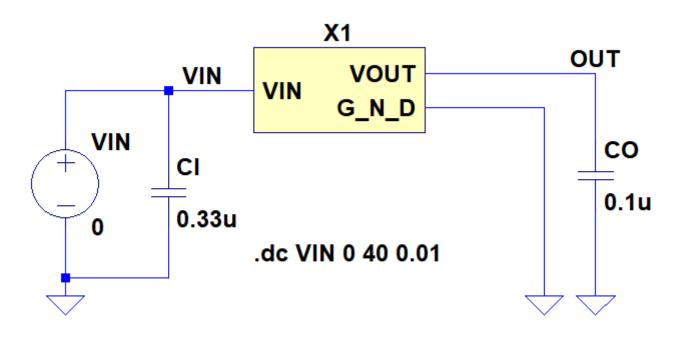


Model Functions Table

Functions	Implemented
VIN-VOUT	0
Vdrop	0
Ilimit	0
Line-Reglation	0
Load-Reglation	0
Ripple Rejection	0

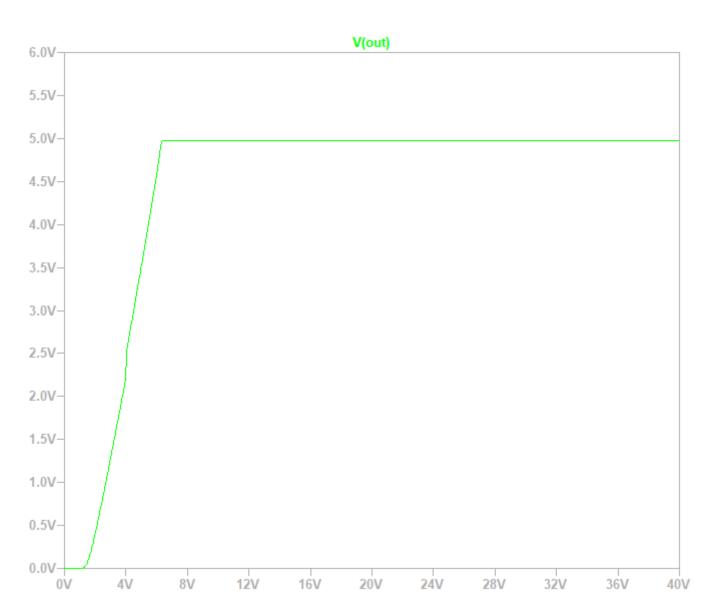


VIN-VOUT Testbench





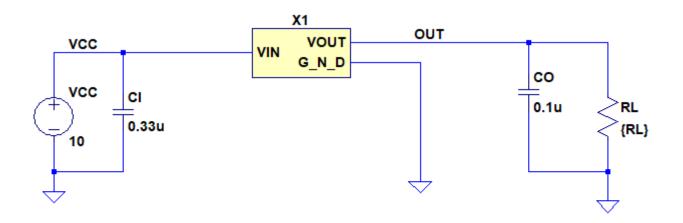
VIN-VOUT





Vdrop Testbench

Referred to Data Sheet



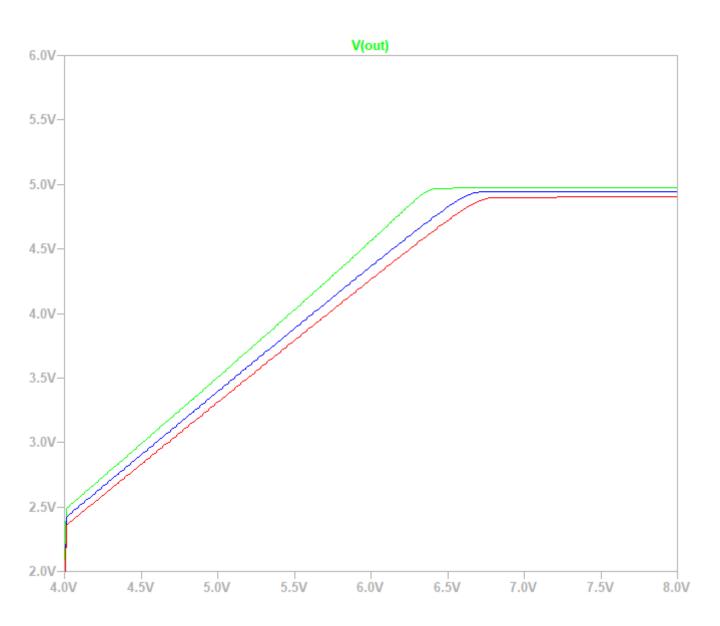
.param RL=VOUT/IOUT VOUT=5 IOUT=40m

.step param IOUT list 1m 40m 100m

.dc VCC 4 8 0.01



Vdrop

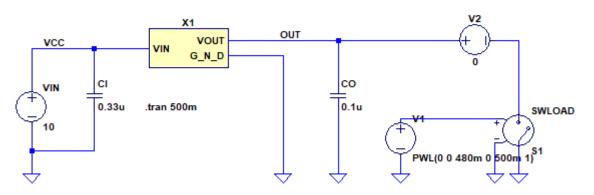




Ilimit Testbench

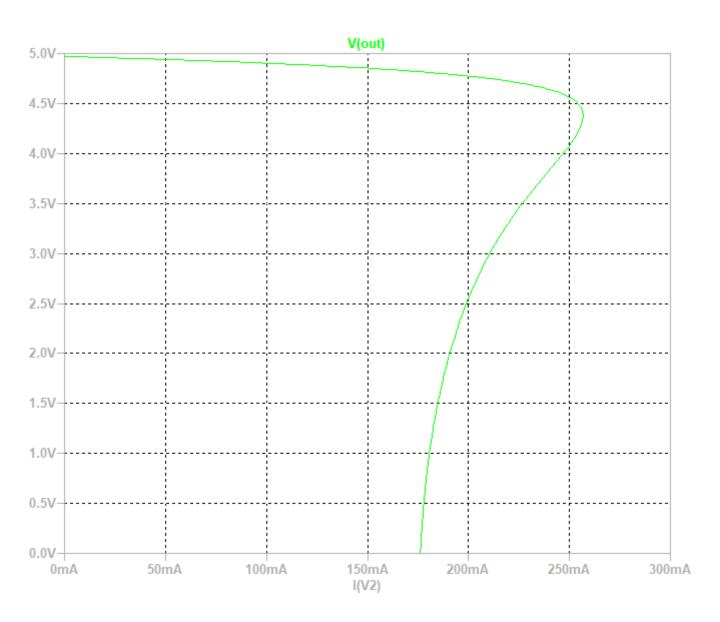
Referred to Data Sheet

.MODEL SWLOAD SW RON=1m ROFF=100k VON=1 VOFF=0



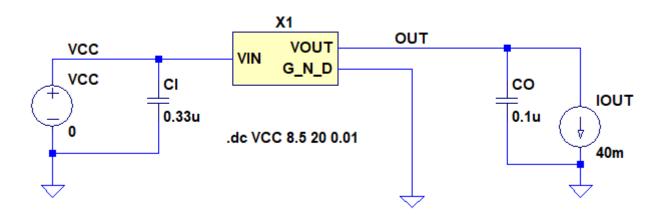


llimit



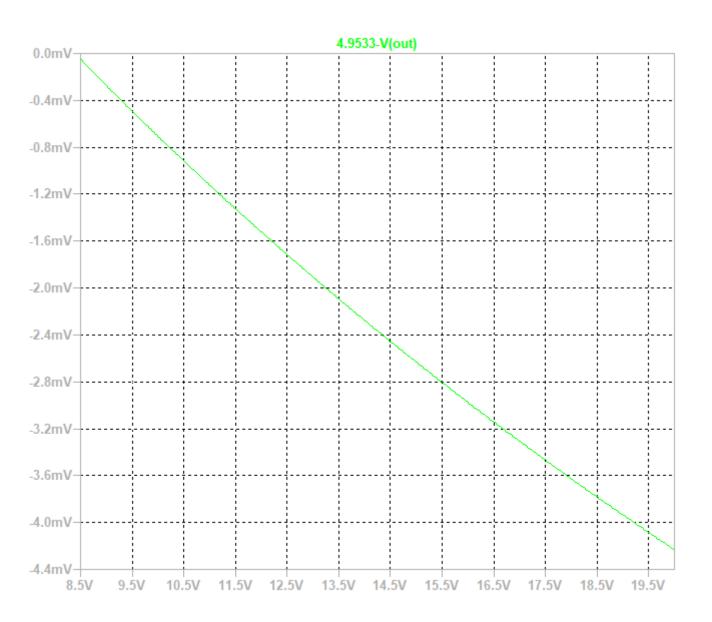


Line-Reg Testbench



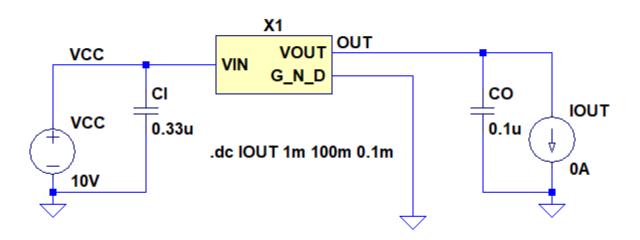


Line-Reg



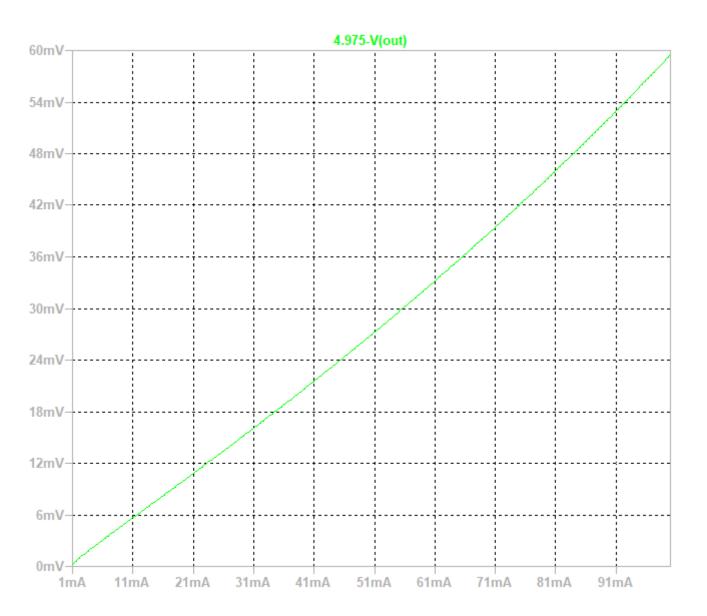


Load-Reg Testbench



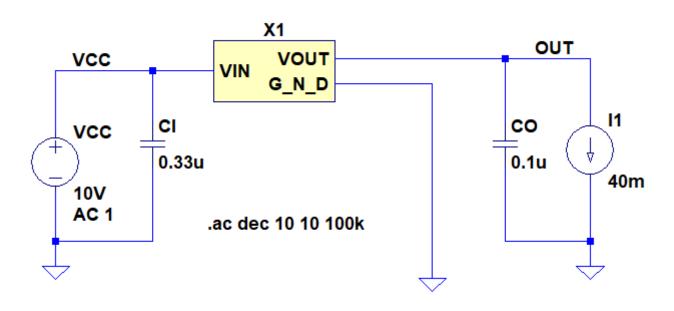


Load-Reg



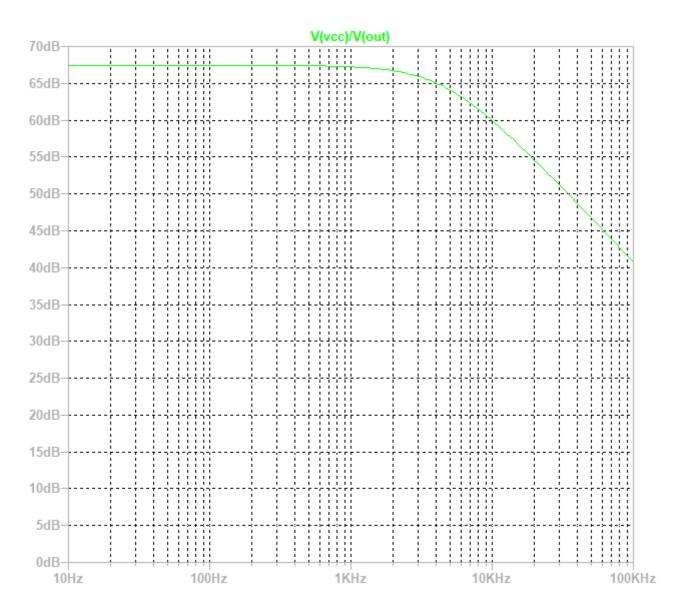


Ripple Rejection Testbench





Ripple Rejection





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