

LTspice Model

Low Dropout Voltage Regulator with Reset

New Japan Radio

NJM2801U1-3328

Model Information

Model A macro model
Call Name MDC_NJM2801U1-3328_LT
Pin Assign 1:VOUT 2:GND 3:Cd 4:VOR 5:VIN
File List Model Library MDC_NJM2801U1-3328_LT01.lib
 Model Report MDC_NJM2801U1-3328_LT.pdf(this file)

Verified Simulator Version LTspice XVII

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Ver.2006-07-05
- Product name NJM2801U1-3328
- Company name New Japan Radio Co.,Ltd.

[Characteristics listed]

- Characteristics IQ
Vo, Io, dVo/dVin, dVi_o
VRT, VRTH, RORL, td, VOPL

Simulation Condition

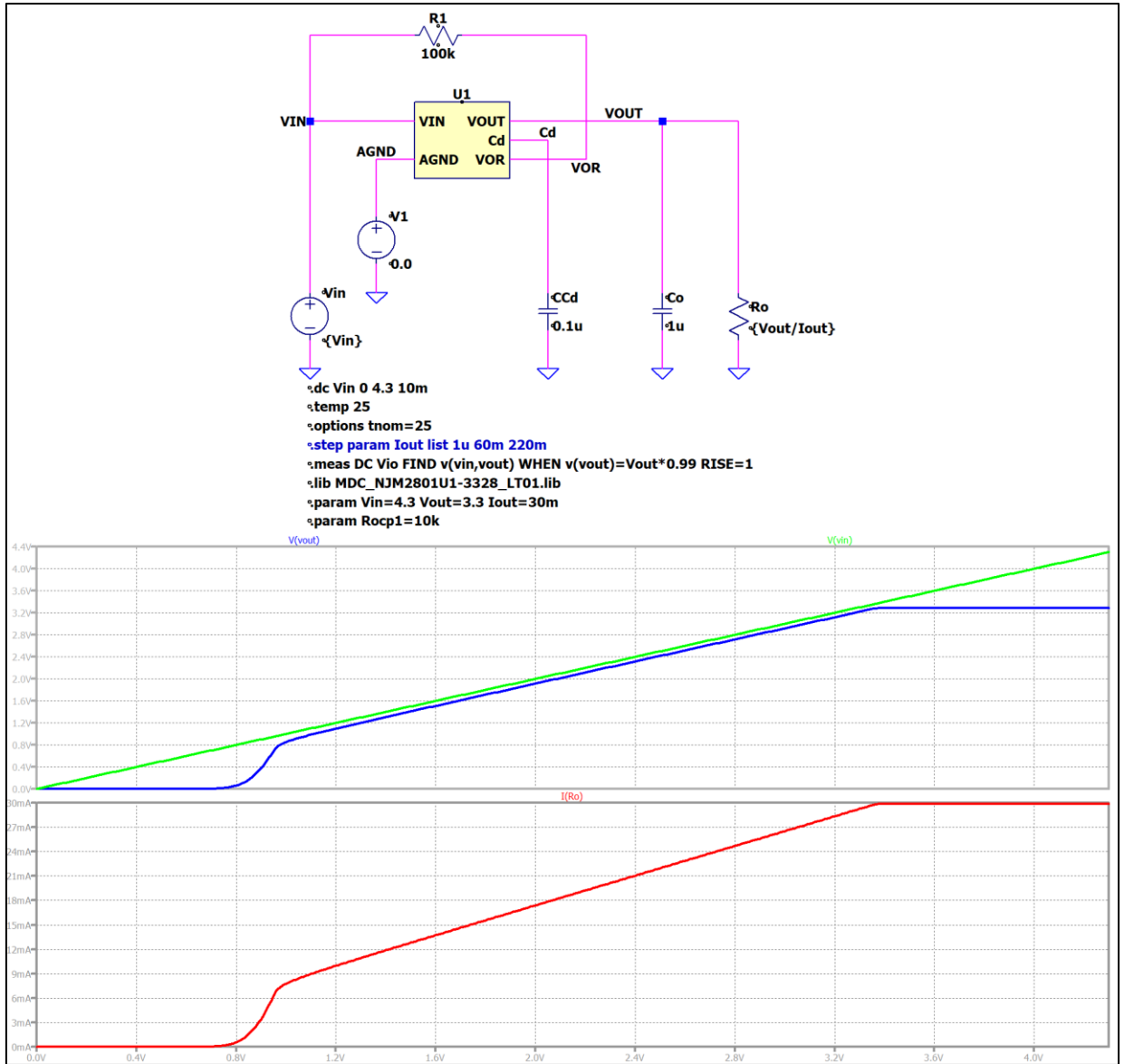
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Condition			Unit
	Min	Typ	Max	
Input voltage			14	V
Temperature		25		deg C

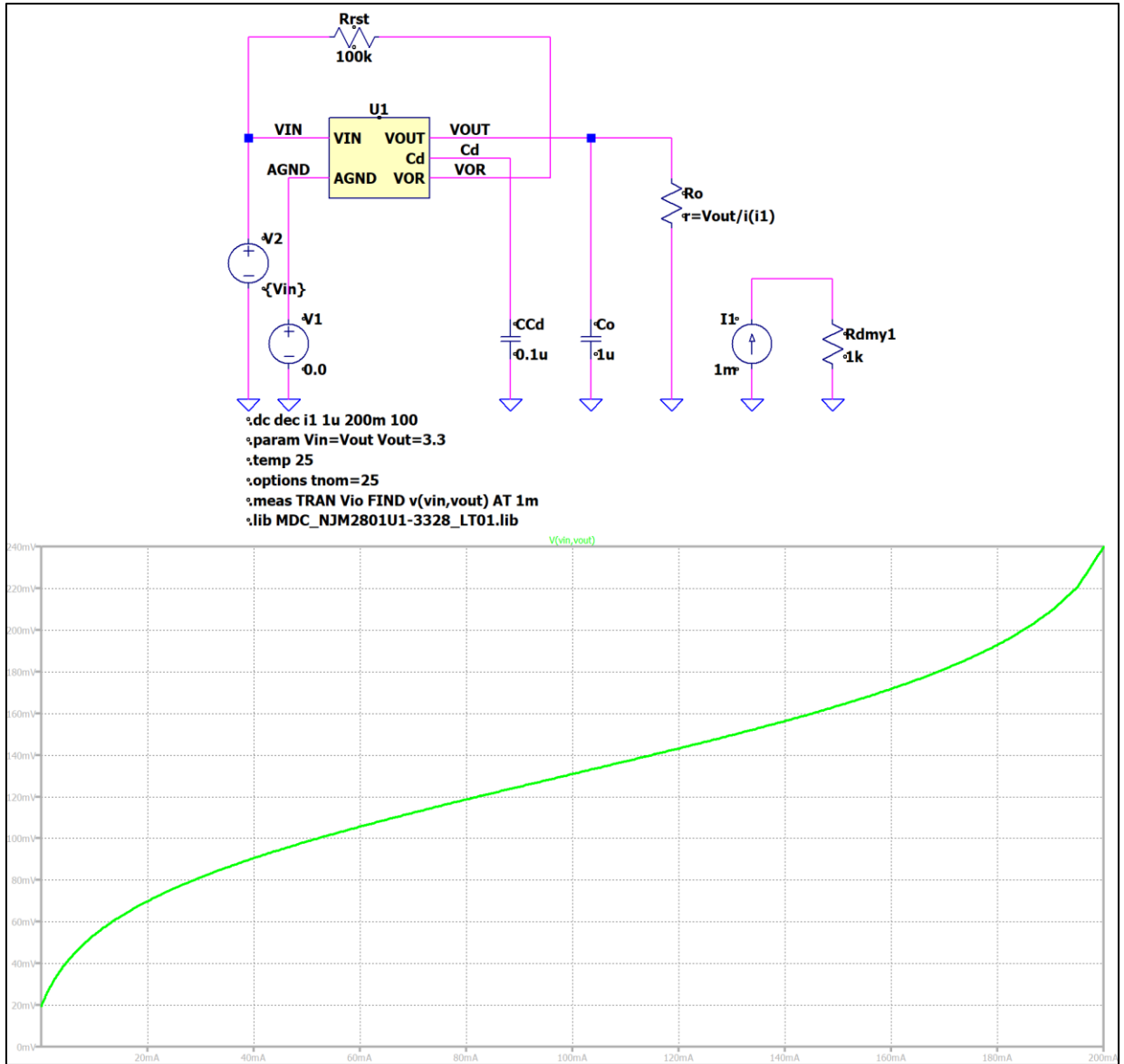
Model Functions Table

Functions	Implemented
Adjust reset delay time with external capacitor.	○
Internal Short Circuit Current Limit	○

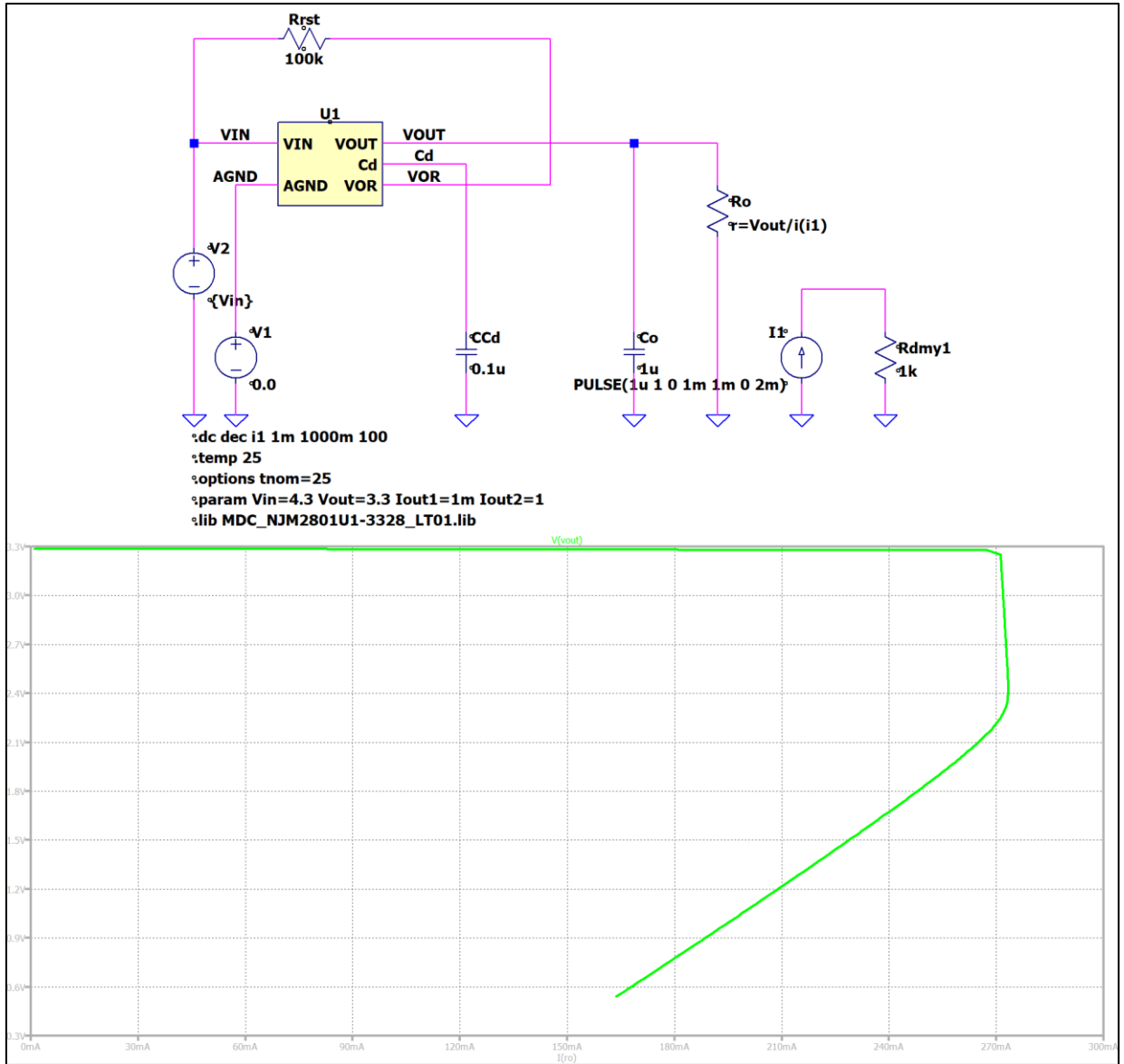
Testbench and simulated results for Vout-Vin
 Referred to Data Sheet



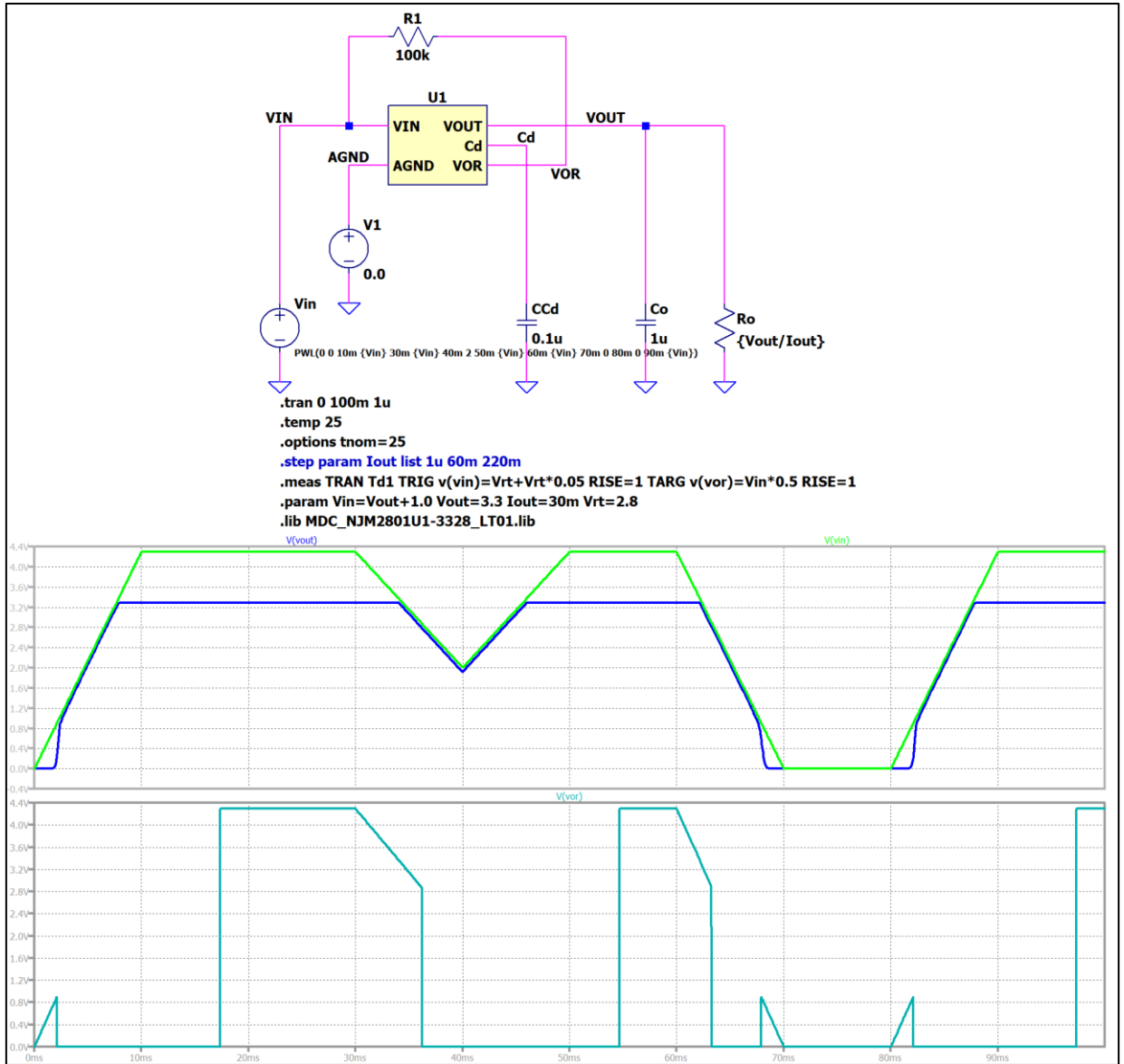
Testbench and simulated results for Vio
 Referred to Data Sheet



Testbench and simulated results for current limit function
 Referred to Data Sheet



Testbench and simulated results for input and output transient response
 Referred to Data Sheet



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