

LTspice Model DCDC converter TEXAS INSTRUMENTS LM2673SD-ADJ

Model Information

Model A macro model

Call Name MDC_LM2673SD-ADJ_LT

Pin Assign 1:NC 2:Input 3:Input 4:CB 5:NC 6:Current_adjust 7:FB 8:SS 9:GND 10:NC

11:NC 12:Switch_output 13:Switch_output 14:Switch_output

File List Model Library MDC_LM2673SD-ADJ_LT01.lib

Model Report MDC_LM2673SD-ADJ_LT.pdf(this file)

Verified Simulator Version LTspice

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameJUNE 2016LM2673SD-ADJ

Company name TEXAS INSTRUMENTS

[Characteristics listed]

• Characteristics Variable output voltage(VIN=28V OUT=14.88V I_{OUT}=2.0A R_{ADJ}=12.4kΩ)

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

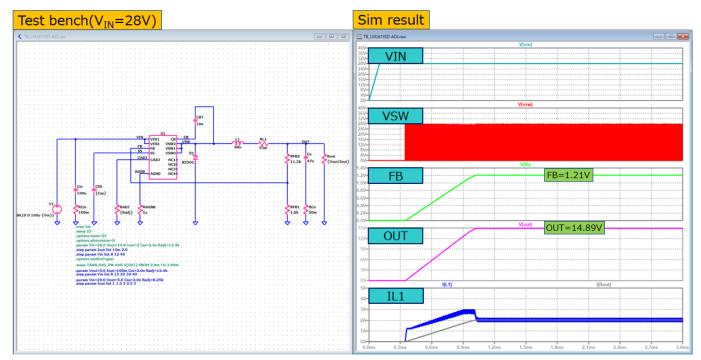
Functions	Implemented
Output and Adjustable (1.2 V to 37 V) Versions	0
Wide Input Voltage Range: 8 V to 40 V	0
260-KHz Fixed Frequency Internal Oscillator	0
Soft-Start Capability	0
Resistor Programmable Peak Current Limit Over a Range of 2 A to 5 A	0
±2% Maximum Output Tolerance Over Full Line and Load Conditions	0



Variable output voltage(VIN=28V OUT=14.88V I_{OUT} =2.0A R_{ADJ} =12.4k Ω)

Simulation results are following.

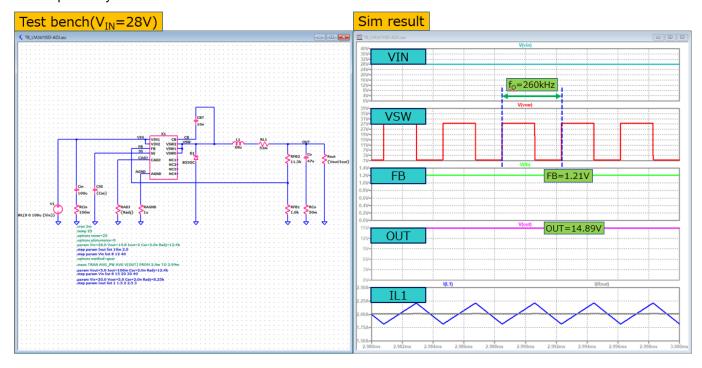
Explanatory notes — : simulated



Variable output voltage(VIN=28V OUT=14.88V I_{OUT} =2.0A R_{ADJ} =12.4k Ω)

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Explanatory notes — : simulated





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