

LTspice Model Tone Decoder ROHM BD9E303EFJ-LB

Model Information

Model A macro model

Call Name MDC_BD9E303EFJ-LB_LT

Pin Assign 1:BOOT 2:VIN 3:EN 4:AGND 5:FB 6:COMP 7:PGND 8:SW

File List Model Library MDC_BD9E303EFJ-LB_LT02.lib

Model Report MDC_BD9E303EFJ-LB_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/VersionUnknown

Product name
BD9E303EFJ-LB

Company nameROHM

[Characteristics listed]

Characteristics
 VFB, FOSC, Maxduty, RONH, RONL, ILIMIT,
 VUVLO, VUVLOHYS, VENH, VENL, IEN, TSS

Simulation Condition

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

Item	Condition			Linit
	Min	Тур	Max	Unit
Supply Voltage	7.0		36.0	V
Temperature		25		deg C



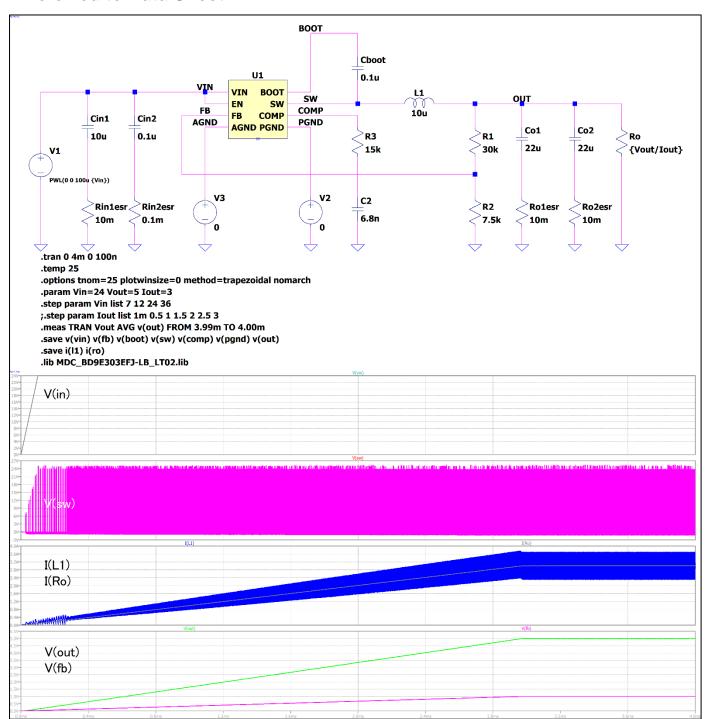
Model Functions Table

Functions	Implemented
Over-Current Protection	0
Undervoltage Lockout Protection	0
Soft Start	0



Buck converter Operation (Vin = 24V, Vout=5.0V, lout=3.0A) Testbench

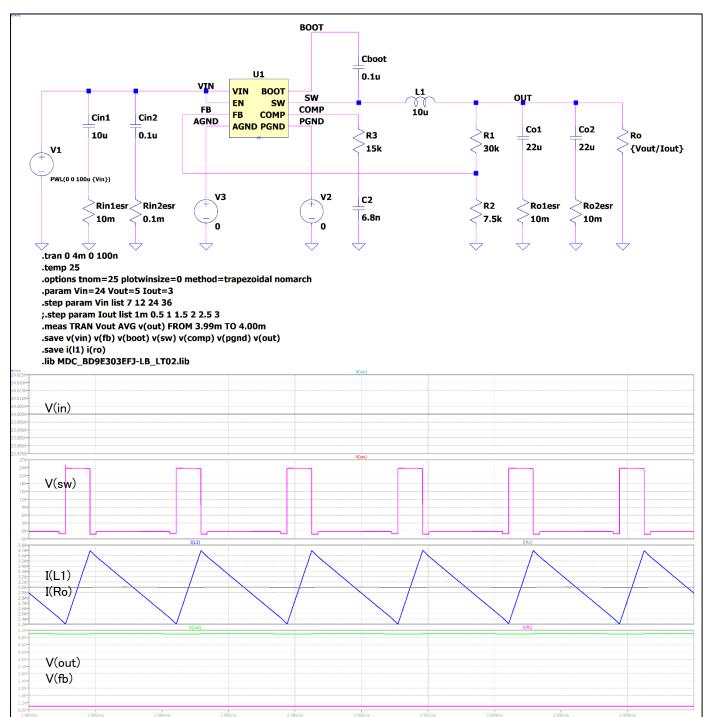
Referred to Data Sheet





Buck converter Operation (Vin = 24V, Vout=5.0V, lout=3.0A [scale downed]) Testbench

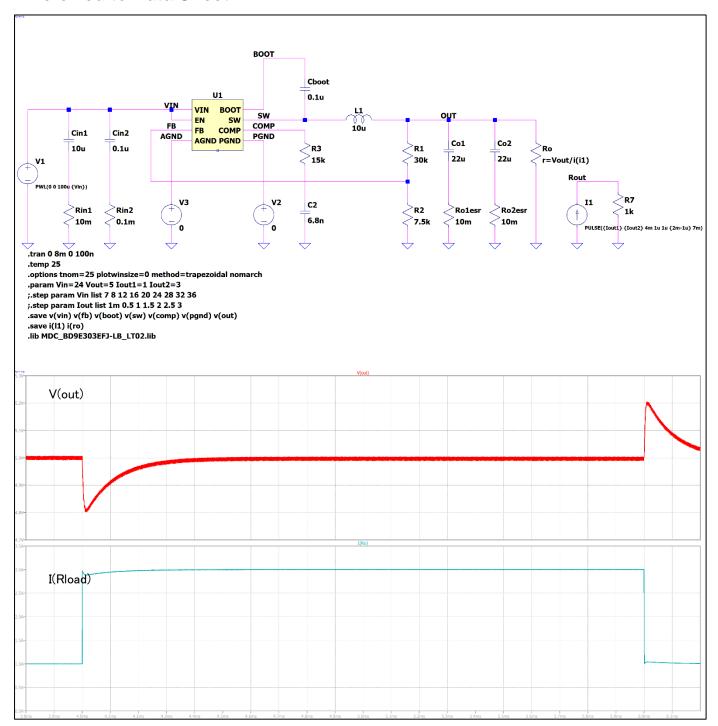
Referred to Data Sheet





Buck converter Operation (Vin = 24V, Vout=5.0V, lout=1.0A - 3.0A [Load transient response]) Testbench

Referred to Data Sheet





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