

LTspice Model Quasi-Resonant Controllers Sanken Electric Co., Ltd. STR-Y6763A

Model Information

Model A macro model

Call Name MDC_STR-Y6763A_PS

Pin Assign 1:D/ST 2:S/OCP 3:VCC 4:GND 5:FB/OLP 6:BD 7:NF

File List Model Library MDC_STR-Y6763A_PS01.lib

Model Report MDC_STR-Y6763A_PS.pdf(this file)

Verified Simulator Version PSpice version 17.2

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameUnknownSTR-Y6763A

Company name
Sanken Electric Co., Ltd.

[Characteristics listed]

● Characteristics Vcc(on), Vcc(off)

Fosc, tss

Vbd(TH1), Vbd(TH2)

Rds(on), Tf

Simulation Condition

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

ltem	Condition	Unit
Temperature	25	deg C



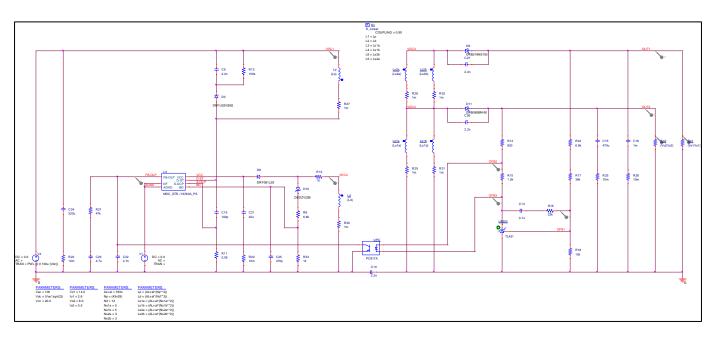
Model Functions Table

Functions	Implemented
Startup Operation	0
Leading Edge Blanking Function	0
Bias Assist Function	0
Soft Start Function	0
Constant Output Voltage Control	0
Leading Edge Blanking Function	0
Quasi-Resonant Operation	0
BD Pin Blanking Time	0
Multi-mode Control	-
Maximum On-Time Limitation Function	0
Overcurrent Protection 1 (OCP1)	0
Overcurrent Protection 2 (OCP2)	-
OCP1 Input Compensation Function	-
Overload Protection (OLP)	-
Overvoltage Protection (OVP)	-
Thermal Shutdown (TSD)	-



Quasi-Resonant Operation (Vdc = 100V, Vout1 = 14V, lout1 = 2.6A, Vout2 = 8V, lout2 = 0.5A) Testbench

Referred to Data Sheet

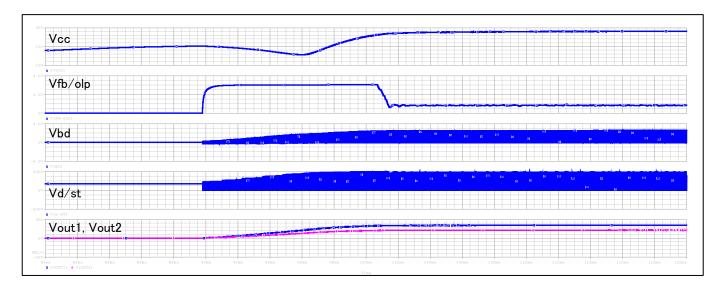




Simulation results are following.

Explanatory notes — : simulated

40V Synchronous Boost Regulator with Input Disconnect (VIN = 5V, IOUT = 0.2A) Testbench





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