

ADS Model Buck Converter Sanken Electric Co., Ltd. STR6A169HVD

Model Information

 Model
 A macro model

 Call Name
 MDC_STR6A169HVD_AD

 Pin Assign
 1:S/OCP 2: BA 3:AGND 4:FB/OLP 5:VCC 7:D/ST1 8:D/ST2

 File List
 Model Library
 MDC_STR6A169HVD_AD01.lib

 Model Report
 MDC_STR6A169HVD_AD.pdf (this file)

Verified Simulator Version Note

ADS 2020 update 2

References

The information which was used for modeling is as follow:

[Data Sheet] • Date/Ver

Date/Version	Rev.3.0 2021.01.25	
Product name	STR6A169HVD	
Company name	SANKEN ELECTRIC	

[Characteristics listed] • Characteristics

V_{CC}, V_{FB/OLP}, V_{D/ST}, V_{S/OCP}

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

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MDC_STR6A169HVD_AD

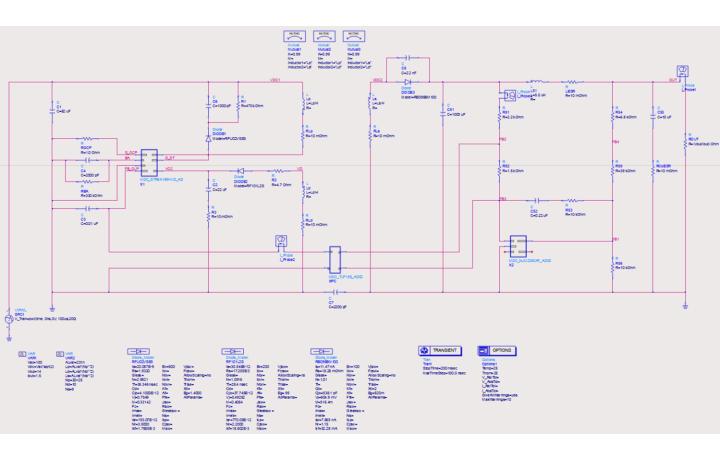
Switching Regulator	O : Implemented × : Not Implemented -: Not applicable	
Model Functions Table		
Functions	RANK	Implemented
Control Method(PWM,PFM)	1	0
Enable Function	1	-
Soft Start	1	0
Line Regulation	1	_
Load Regulation	1	-
Synchronous External Oscillation	1	-
UVLO	1	0
Line Transient	2	-
Load Transient	2	-
Light Load Current Mode	2	0
Spread Spectrum	2	-
Over Current Protection	2	0
Over Voltage Protection	2	0
Forard/Flyback Other Device in Circuit	3	-
Brown IN/OUT Function	_	-
ZT Pin OVP Function	_	_





Power supply circuit (Vac = 200V, Vout = 14V, lout = 1.5A) Testbench

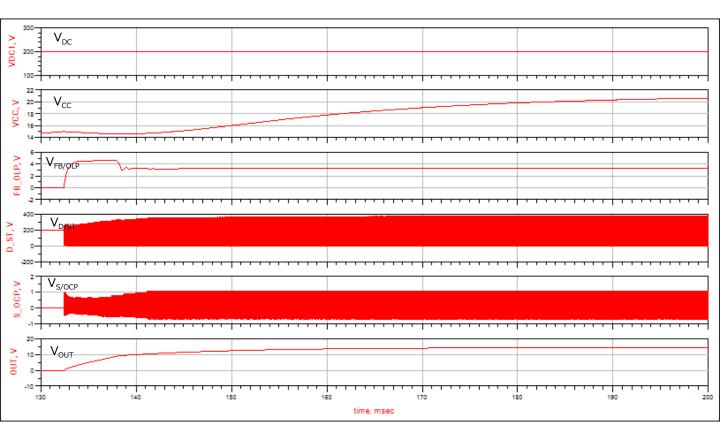
Referred to Data Sheet





Simulation results are following. Explanatory notes -: simulated

Power supply circuit (Vac = 200V, Vout = 14V, lout = 1.5A)





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