

PSpice Model Flyback Converter Sanken Electric Co., Ltd. STR6A161HVD

Model Information

Model A macro model

Call Name MDC_STR6A161HVD_PS

Pin Assign1:S/OCP 2: BA 3:AGND 4:FB/OLP 5:VCC 6:D/ST1 7:D/ST2File ListModel LibraryMDC_STR6A161HVD_PS01.lib

Model Report MDC_STR6A161HVD_PS.pdf (this file)

Verified Simulator Version

Note

PSpice Ver17.4

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameCompany nameRev.3.0 2021.01.25STR6A161HVDSANKEN 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



Switching Regulator

O: Implemented

×: Not Implemented
—: Not applicable

Model Functions Table

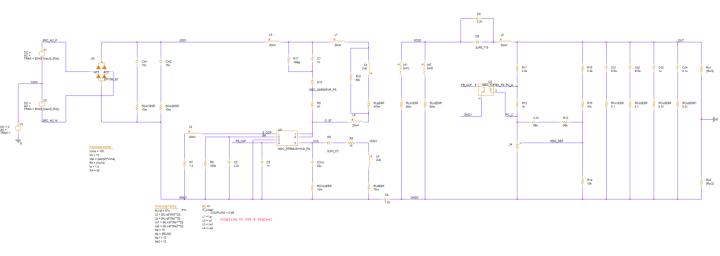
RANK=2

	NAINN-Z	
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	1
Light Load Current Mode	2	0
Spread Spectrum	2	ı
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 = $100*\sqrt{2}V$, Vout = 15V, lout = 1.0A) Testbench

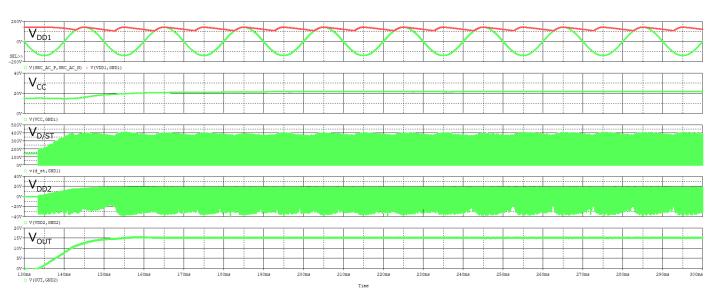
Referred to Data Sheet





Simulation results are following. Explanatory notes — : simulated

Power supply circuit (Vac = $100*\sqrt{2V}$, Vout = 15V, lout = 1.0A)





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