

PSpice Model PWM Controller ROHM BM2P104E

Model Information

Model	A macro model		
Call Name	MDC_BM2P104E_PS		
Pin Assign	1:SOURCE 2:BR 3:GND 4:FB 5:ZT 6:VCC 7:DRAIN		
File List	Model Library MDC_BM2P104E_PS.lib		
	Model Report MDC_BM2P104E_PS.pdf(this file)		
Pin Assign	1:SOURCE 2:BR 3:GND 4:FB 5:ZT 6:VCC 7:DRAIN Model Library MDC_BM2P104E_PS.lib		

Verified Simulator Version PSpice 17.2

Note Auto Converge is ON

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version	TSZ02201-0F1F0A200350-1-1	2018.09.12 Rev.001
Product name	BM2P104E	
Company name	ROHM Co., Ltd.	

[Characteristics listed] Characteristics

Transient(Soft Start) VCC Charge **Frequency Reduction**

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



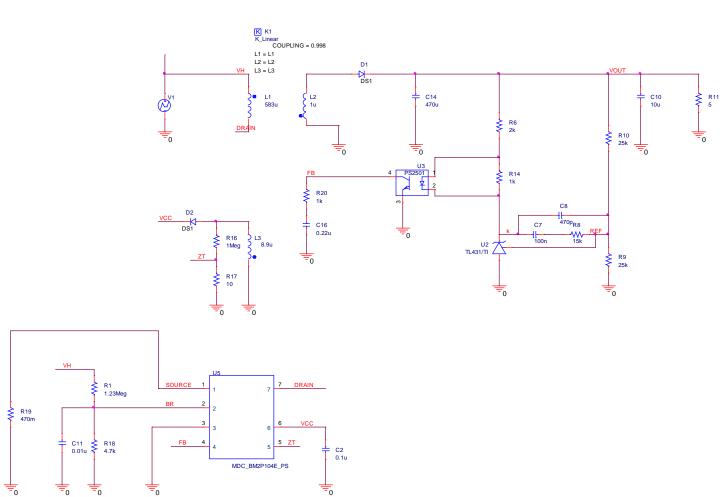
Model Functions Table

Functions	Implemented
Switching Frequency=100kHz	0
Built-in Frequency Hopping Function	×
Burst Operation at Light Load	0
Frequency Reduction Function	0
VCC Pin Under/Over Voltage Protection	0
Over Current Limiter Function per Cycle	0
Soft Start Function	0
Brown IN/OUT Function	0
ZT Pin OVP Function (DC Detect)	0



Transient(Soft Start) Testbench

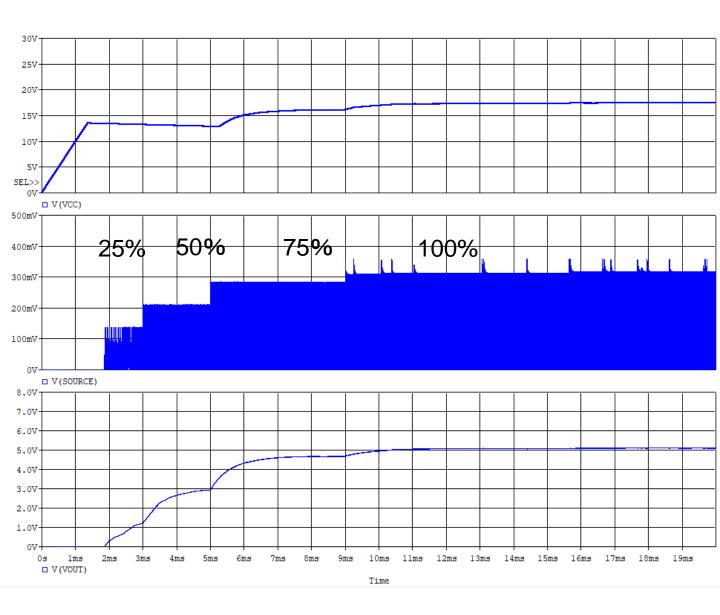
Referred to Data Sheet





Simulation results are following. Explanatory notes -: simulated

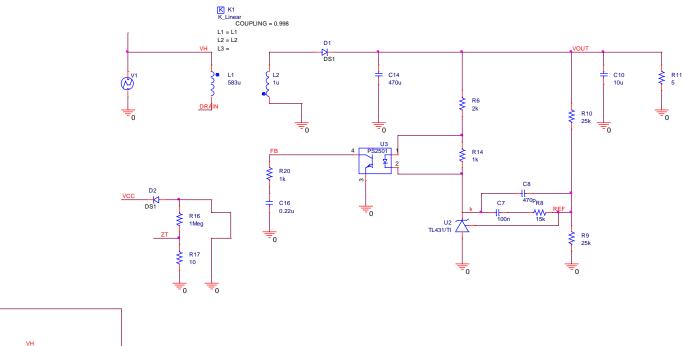
Transient(Soft Start)

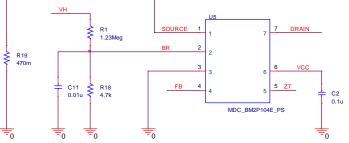




VCC Charge TestBench

Referred to Data Sheet

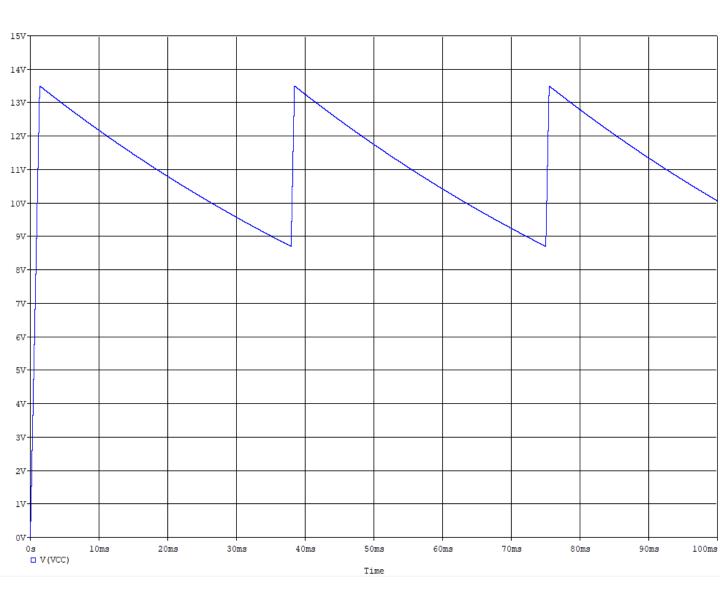






Simulation results are following. Explanatory notes -: simulated

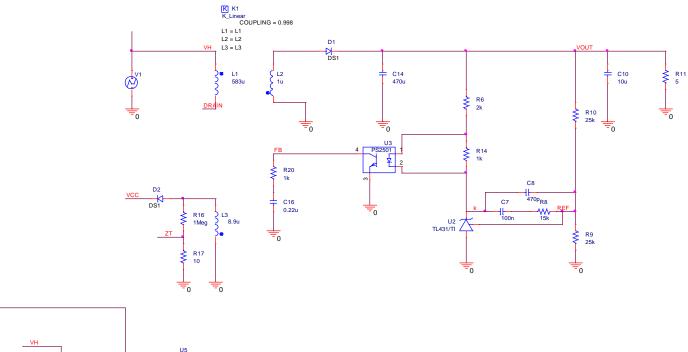
VCC Charge

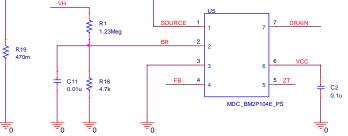




Frequency Reduction Testbench

Referred to Data Sheet

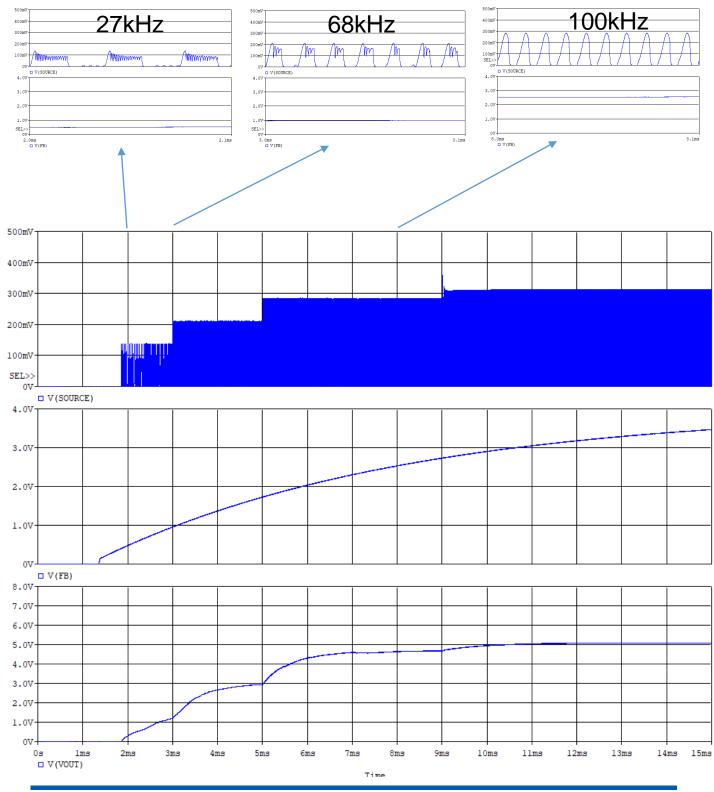






Simulation results are following. Explanatory notes -: simulated

Frequency Reduction



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