

# LTspice Model X Capacitor Bleeder Monolithic Power Systems HF81GS

### **Model Information**

Model	A macro model				
Call Name	MDC_HF81GS_LT				
Pin Assign	1:NC 2:L1 3:L1 4:NC 5:NC 6:L2 7:L2 8:NC				
File List	Model Library	MDC_HF81GS_LT01.lib			
	Model Report	MDC_HF81GS_LT.pdf(this file)			
Verified Simulator Version		LTspice XVII			

Note

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version			
Product name			
Company name			

Rev. 1.14 HF81GS Monolithic Power Systems

[Characteristics listed]				
Characteristics				

t<sub>DETECT</sub> I<sub>SC</sub> I<sub>SUPPLY</sub> V\_OFF\_L1/L2

#### **Simulation Condition**

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

ltom		Linit		
Item	Min	Тур	Max	Unit
L1-L2 Pin Voltage			1000	V
Temperature		25		deg C

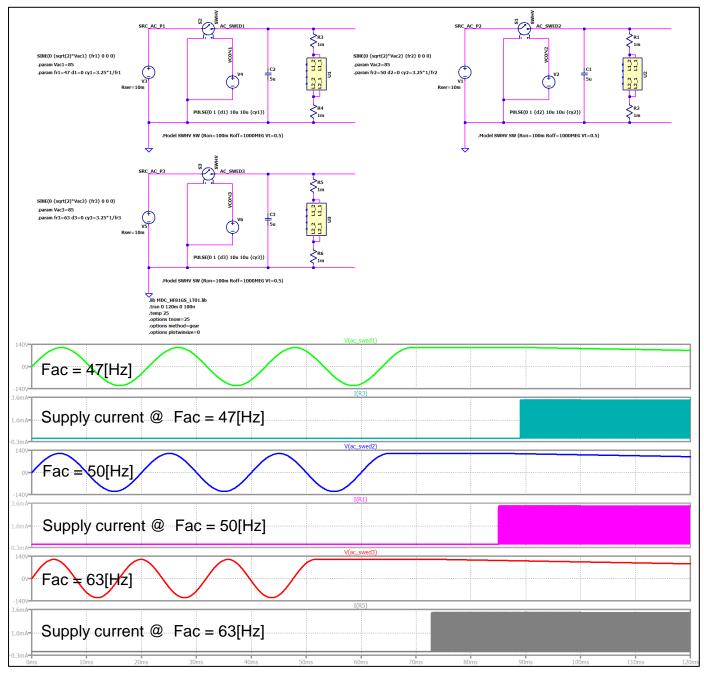


### **Model Functions Table**

Functions	Implemented	
AC Removal Detection Time	0	
Saturation Current	0	
Supply Current	0	
UVLO	0	
Discharge Operation	0	
Recovery From Discharge Operation	0	

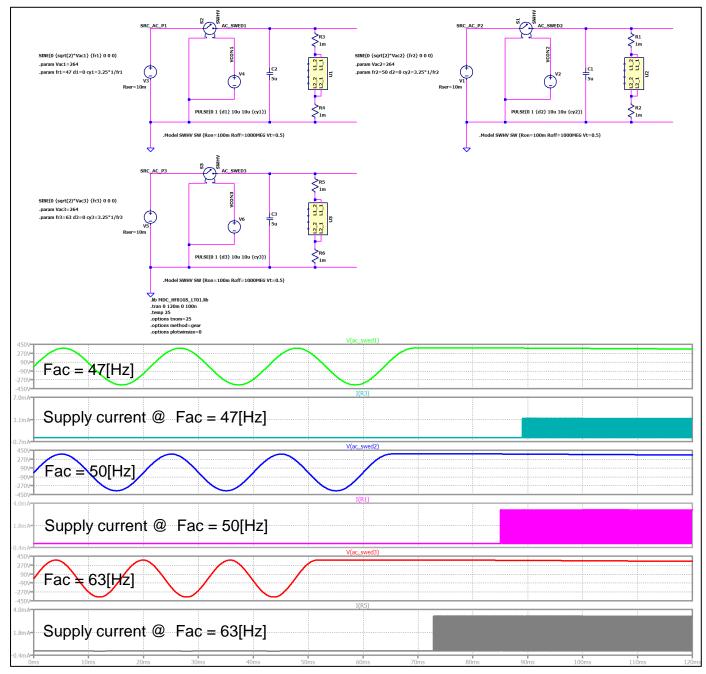


#### Testbench for AC removal detection time at AC = 85[Vrms]



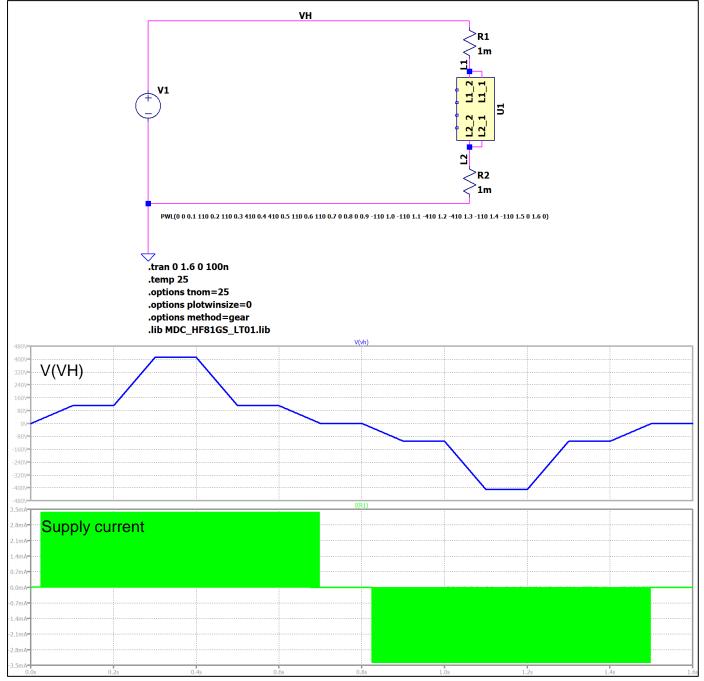


#### Testbench for AC removal detection time at AC = 264[Vrms]



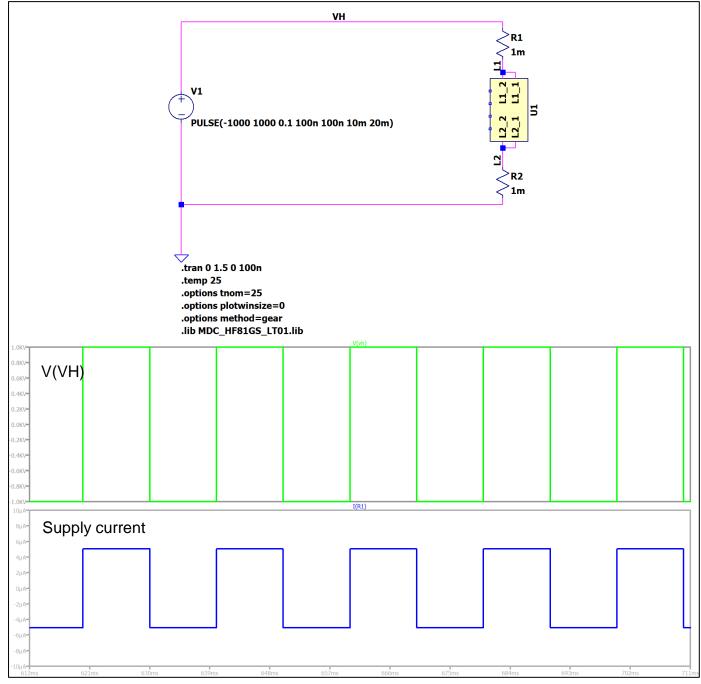


Testbench for saturation current at DC±410[V]





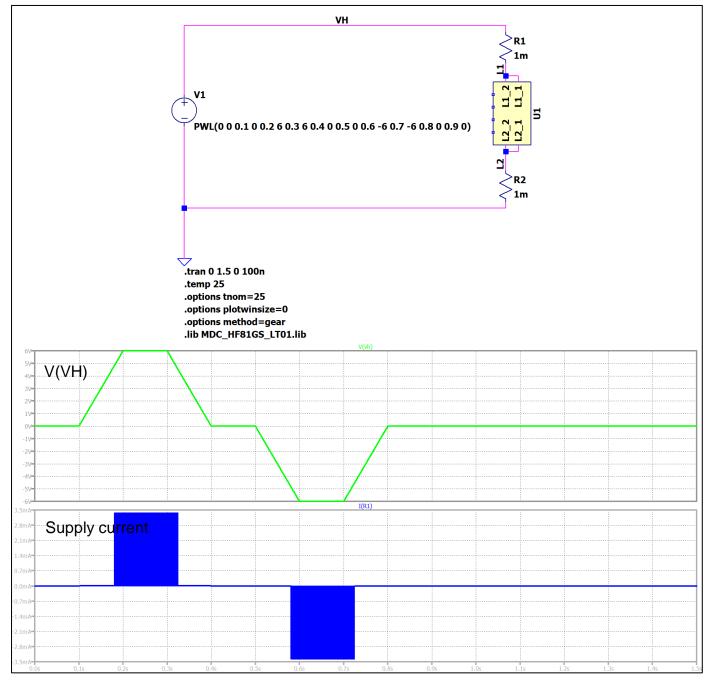
#### Testbench for supply current





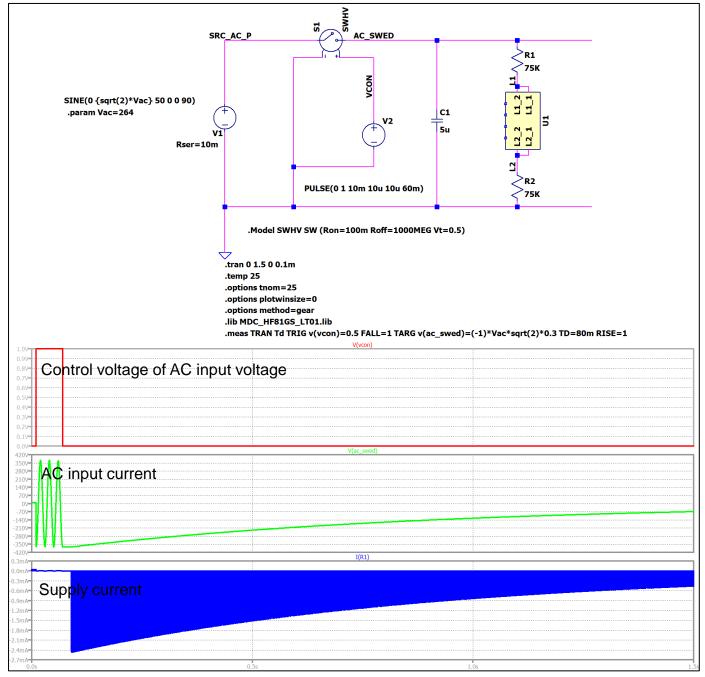


#### **Testbench for UVLO**



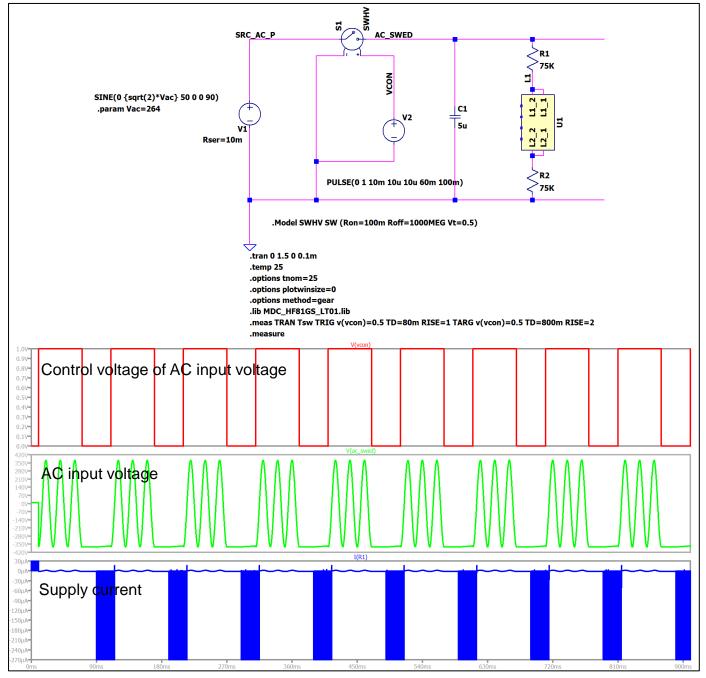


#### Testbench for discharge operation at AC264[Vrms] (Xcap = 5[uF] and R=150[kΩ])





#### Testbench for discharge operation at AC264[Vrms] (Xcap = 5[uF] and R=150[kΩ])





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