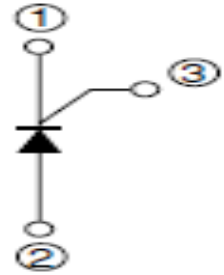


PSpice Model

Thyristor

SanRex

SMG8C60F



Model Information

Model An original macro model
Call Name MDC_SMG8C60F_PS
Pin Assign 1:K 2:A 3:G
File List Model Library MDC_SMG8C60F_PS01.lib
 Model Report MDC_SMG8C60F_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/Version Unknown
- Product name SMG8C60F
- Company name Sansha Electric Manufacturing Co.,Ltd.
- Characteristics ItmVtm[Temp],NormIgtTemp[Pname],NormHoldTemp,SwitchingWaveform

Simulation Range

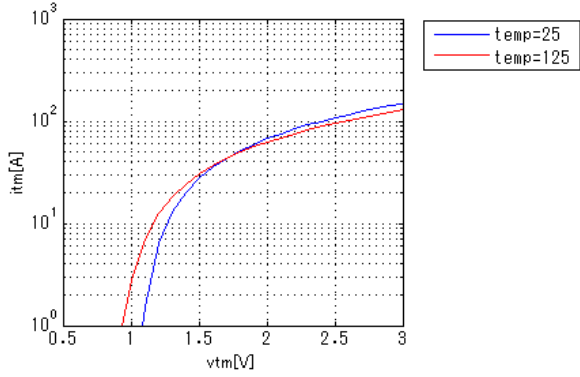
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Reverse Voltage	600	to	600	V
Temperature	-40	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

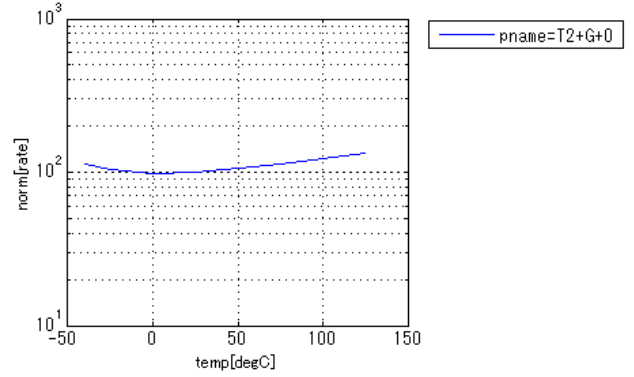
ItmVtm[Temp]

vgt = 0.85V



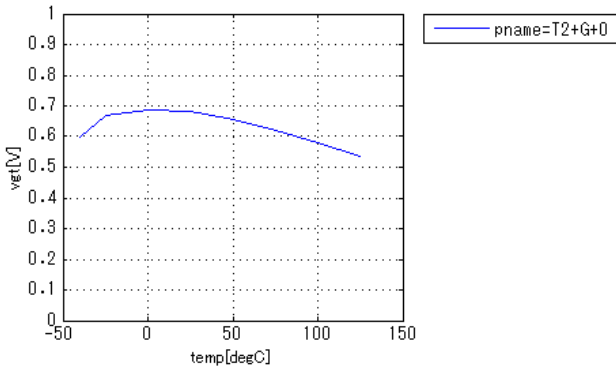
NormIgtTemp[Pname]

vgt = 0.85V, vdm = 10V, rg = 0.001ohm, rl = 6ohm



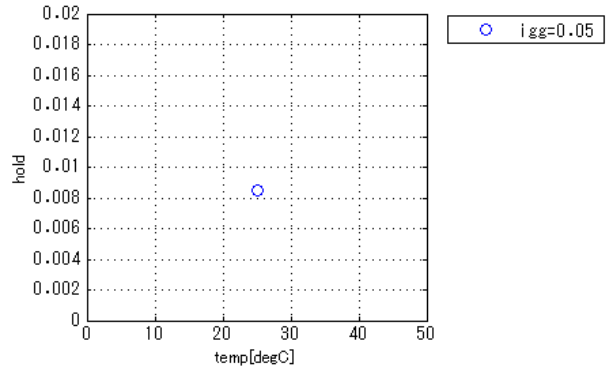
NormIgtTemp[Pname]

igt = 0.05V, vdm = 10V, rg = 0.001ohm, rl = 6ohm

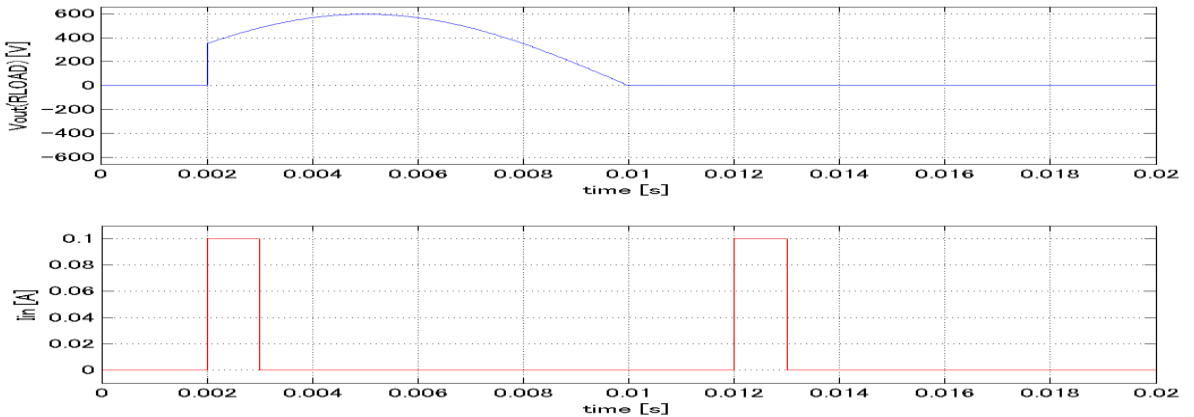


NormHoldTemp

vdd = 10V



Switching Waveform (Red : INPUT Blue : OUTPUT)



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