

PSpice Model Photocoupler Tr. Output ON FODM8801C

Model Information

	An original macro model MDC_FODM8801C_PS			
Pin Assign	1:Anode 2:Cathode 3:Emitter 4:Collector			
File List	Model Library	MDC_FODM8801C_PS01.lib		
	Model Report	MDC_FODM8801C_PS.pdf (this file)		

Verified Simulator Version Note

[Data

PSpice version 16.6

References

The information which was used for modeling is as follow:

heet]	
ate/Version 1.2	
oduct name FODN	//8801C
ompany name ON S	emiconductor.
naracteristics IfVf[T	emp],IcVce[If],IcIf[Vce],IcTemp[If],SwitchingTime,Switc
hingT	ime2,SwitchingTime3
oduct name FODM ompany name ON S naracteristics IfVf[Teta]	emiconductor. emp],IcVce[If],IcIf[Vce],IcTemp[If],SwitchingTime,Sw

Simulation Range

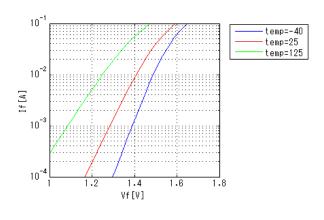
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Forward current (DC)	0	to	0.02	А
Collector-emitter voltage (DC)	0	to	75	V
Temperature	-40	to	150	deg C



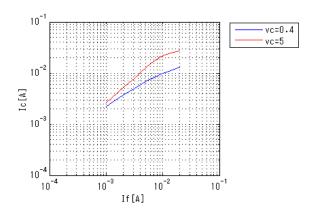
Simulation results are following. Explanatory notes -: simulated

lfVf[Temp]



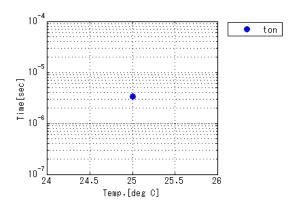
Iclf[Vce]

Temp. = 25deg C



SwitchingTime

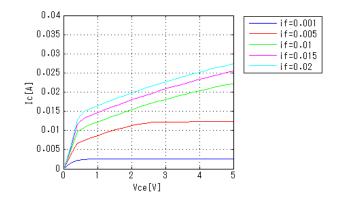
+If = 0.0016A, -If = 0A, Vc = 5V, RI = 10000hm



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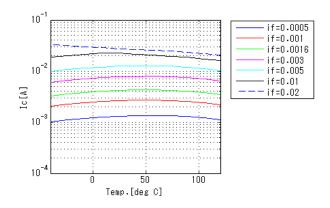
lcVce[lf]

Temp. = 25deg C



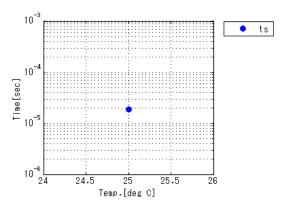
IcTemp[If]

Vc = 5V



SwitchingTime2

+If = 0.0016A, -If = 0A, Vc = 5V, RI = 10000hm

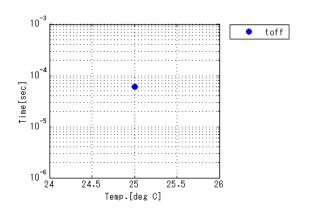




Simulation results are following. Explanatory notes -: simulated

SwitchingTime3

+If = 0.0016A, -If = 0A, Vc = 5V, RI = 10000 hm





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