

PSpice Model Photocoupler Tr. Output TOSHIBA TLP284

Model Information

	An original macro model MDC_TLP284_PS			
Pin Assign	1:Anode(Cathode) 2:Cathode(Anode) 3:Emitter 4:Collector			
File List	Model Library	MDC_TLP284_PS01.lib		
	Model Report	MDC_TLP284_PS.pdf (this file)		

Verified Simulator Version Note

[Data

PSpice version 16.6

References

The information which was used for modeling is as follow:

ata Sheet]	
Date/Version	2017-05-08
Product name	TLP284
Company name	Toshiba Corporation
Characteristics	IfVf[Temp],IcVce[If],IcVce[If]2,IcIf[Vce],hFEIf[Vce],IcTemp[If],
	SwitchingTime,SwitchingTime2,SwitchingTime3

Simulation Range

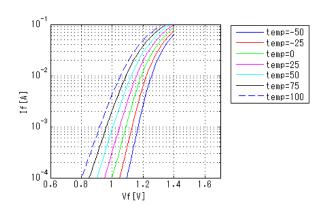
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Forward current (DC)	0	to	0.05	А
Collector-emitter voltage (DC)	0	to	80	V
Temperature	-55	to	125	deg C



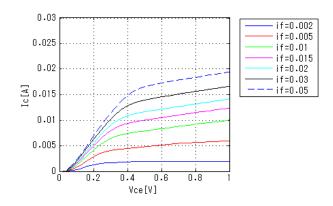
Simulation results are following. Explanatory notes -: simulated

lfVf[Temp]



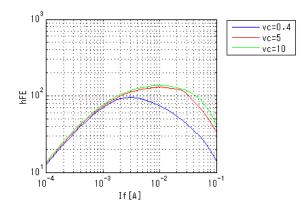
IcVce[lf]2

Temp. = 25deg C





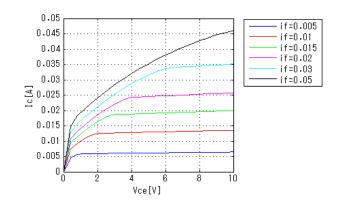
Temp. = 25deg C



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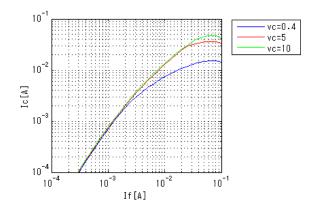
lcVce[lf]

Temp. = 25deg C



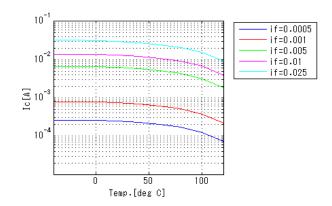
Iclf[Vce]

Temp. = 25deg C



IcTemp[If]

Vc = 5V

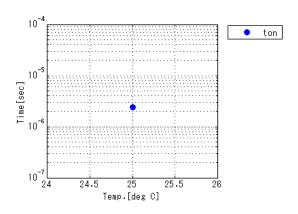




Simulation results are following. Explanatory notes -: simulated

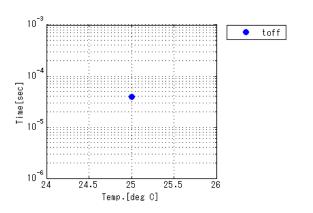
SwitchingTime

+If = 0.016A, -If = 0A, Vc = 5V, RI = 1900ohm



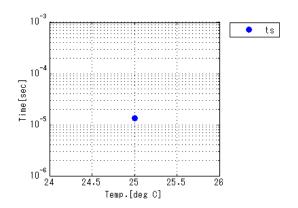
SwitchingTime3

+If = 0.016A, -If = 0A, Vc = 5V, RI = 1900ohm



SwitchingTime2

+If = 0.016A, -If = 0A, Vc = 5V, RI = 1900ohm





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