

PSpice Model Photocoupler Tr. Output TOSHIBA TLP187

Model Information

	An original macro model MDC_TLP187_PS			
Pin Assign	1:Anode 2:Cathode 3:Emitter 4:Collector			
File List	Model Library	MDC_TLP187_PS01.lib		
	Model Report	MDC_TLP187_PS.pdf (this file)		

Verified Simulator Version Note

PSpice version 16.6

References

The information which was used for modeling is as follow:

[Data Sheet]				
Date/Version				
Product name				
Company name				
Characteristics				

Unknown TLP187 Toshiba Corporation IfVf[Temp],IcIf[Vce],hFEIf[Vce],SwitchingTime,SwitchingTime 2,SwitchingTime3

Simulation Range

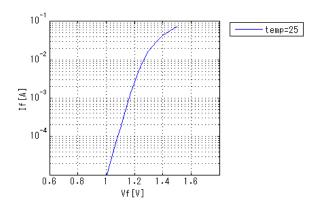
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Forward current (DC)	0	to	0.05	А
Collector-emitter voltage (DC)	0	to	300	V
Temperature	-55	to	125	deg C



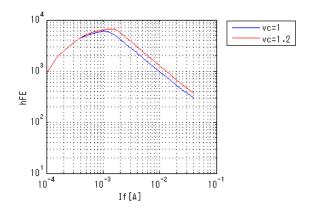
Simulation results are following. Explanatory notes -: simulated

lfVf[Temp]



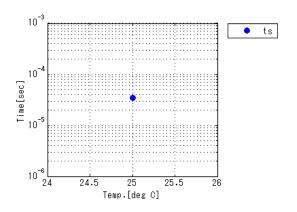
hFElf[Vce]

Temp. = 25deg C



SwitchingTime2

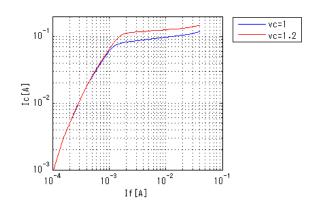
+If = 0.016A, -If = 0A, Vc = 10V, RI = 1800hm



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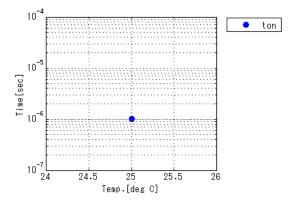
lclf[Vce]

Temp. = 25deg C



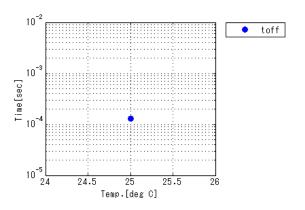
SwitchingTime

+If = 0.016A, -If = 0A, Vc = 10V, RI = 1800hm



SwitchingTime3

+If = 0.016A, -If = 0A, Vc = 10V, RI = 180ohm





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