

# ADS Model Photocoupler Tr. Output TOSHIBA TLP185

## **Model Information**

Model An original macro model Call Name MDC\_TLP185\_AD02

Pin Assign 1:Anode 3:Cathode 4:Emitter 6:Collector

File List Model Library MDC\_TLP185\_AD.zip

Model Report MDC\_TLP185\_AD.pdf (this file)

**Verified Simulator Version** 

Note

ADS version 2020

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version 2014/9/1Product name TLP185

Company nameToshiba Corporation

● Characteristics If Vf[Temp], lcvce[If], hFEIf[Vce], Vce(sat)Temp[If],

lclf[Vce],lcTemp[lf]

#### 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

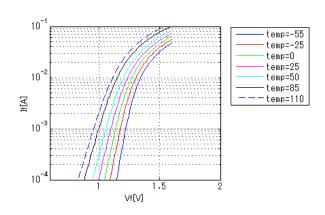
1



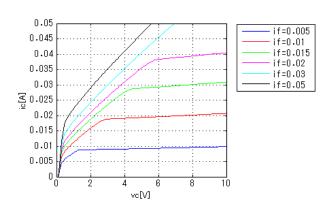
Simulation results are following.

Explanatory notes — : simulated

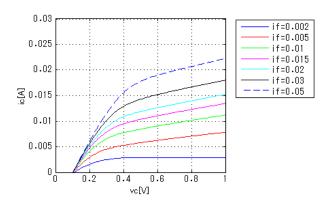
## IfVf[Temp]



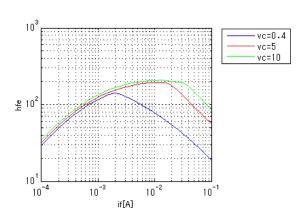
#### Icvce[If]



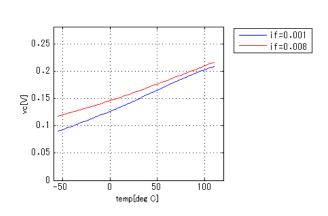
#### Icvce[If]



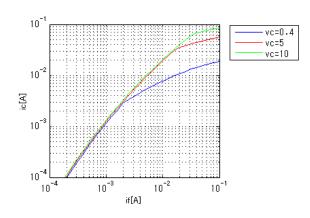
#### hFElf[Vce]



#### Vce(sat)Temp[If]



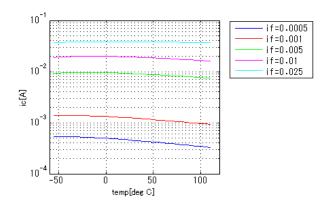
## Iclf[Vce]





Simulation results are following. Explanatory notes — : simulated

# IcTemp[If]



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