

LTspice Model Photo Relay TOSHIBA TLP597G

Model Information

Model A macro model
Call Name MDC_TLP597G_LT

Pin Assign 1:Anode 2:Cathode 3:NC 4:Drain1 5:Source 6:Drain2

File List Model Library MDC_TLP597G_LT.lib

Model Report MDC_TLP597G_LT.pdf(this file)

Verified Simulator Version LTspice XVII

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version 2019-06-24Product name TLP597G

● Company name Toshiba Electronic Devices & Storage Corporation

[Characteristics listed]

Characteristics

IF-VF Ion-Von Ioff-Voff Switching

Simulation Condition

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

Item	Condition	Unit
Temperature	25	deg C





O: Implemented

×: Not Implemented
—: Not applicable

Model Functions Table

RANK=1

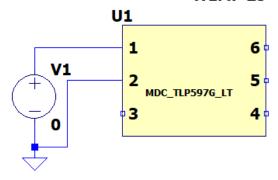
Functions	RANK	Implemented
IF-VF-Temp	1	0
Ion-Von	1	0
Ioff-Voff	1	0
CJ-VR	1	_
Propagation delay	1	0
Switching (Typ.)	1	0



IF-VF Testbench

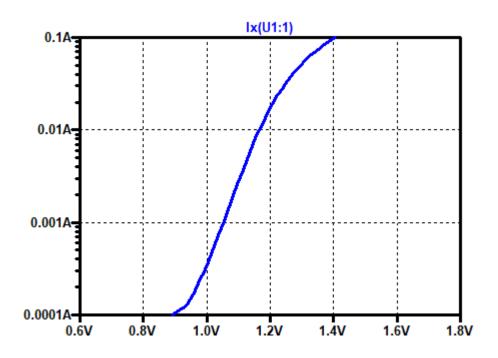
Referred to Data Sheet

.dc V1 0.6 1.8 0.01 .OPTION TNOM=25 .TEMP 25



Simulation results are following. Explanatory notes — : simulated

IF-VF

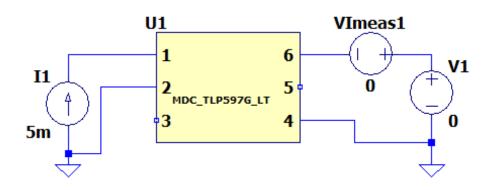




Ion-Von Testbench

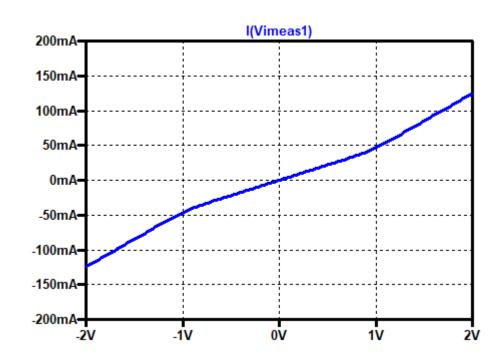
Referred to Data Sheet

.dc V1 -2 2 0.01.OPTION TNOM=25 .TEMP 25



Simulation results are following. Explanatory notes — : simulated

Ion-Von

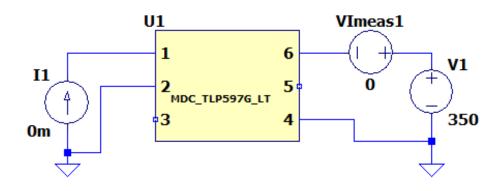




loff-Voff Testbench

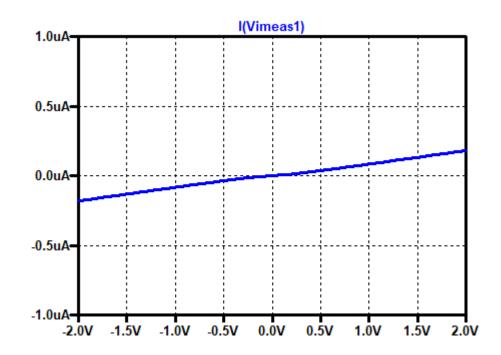
Referred to Data Sheet

.dc V1 -2 2 0.01 .OPTION TNOM=25 .TEMP 25



Simulation results are following. Explanatory notes — : simulated

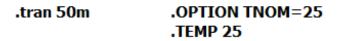
loff-Voff

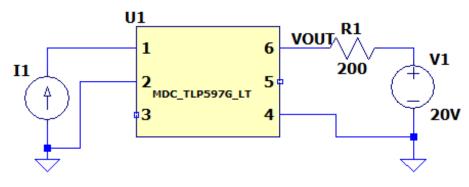




Switching Testbench

Referred to Data Sheet

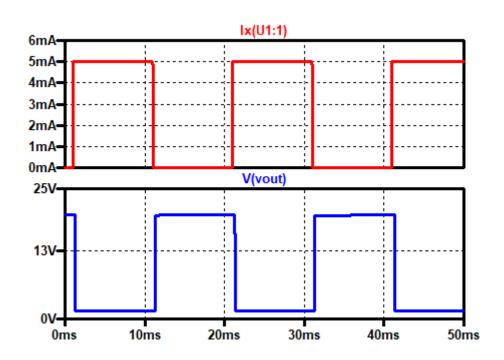




PULSE(0 5m 1m 100n 100n 10m 20m)

Simulation results are following. Explanatory notes — : simulated

Switching





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