

LTspice Model Multiplexer/Demultiplexer **TOSHIBA TC7SB3157CFU**

Model Information

Model	A macro model		
Call Name	MDC_TC7SB3157CFU_LT		
Pin Assign	1:B2 2:GND 3:B1 4:A 5:VCC 6:S		
File List	Model Library MDC_TC7SB3157CFU_LT.lib		
	Model Report MDC_TC7SB3157CFU_LT.pdf(this file)		
Verified Simula	tor Version LTspice XVII		

Verified Simulator Version

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version 2021-03-31/Rev.5.0 Product name TC7SB3157CFU Company name **Toshiba Electronic Devices & Storage Corporation**

[Characteristics listed]		
Characteristics		
RON		
Switching		
Transient		

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	
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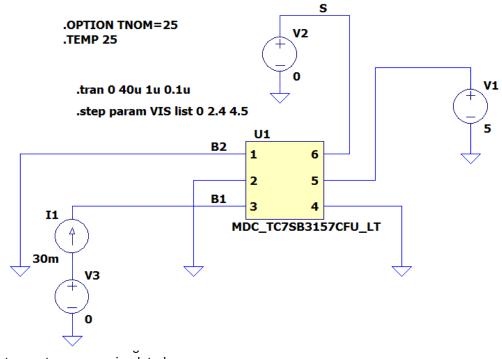
× : Not Implemented

Model Functions Table	RANK=1	— : Not applicable
Functions	RANK	Implemented
RON	1	0
Propagation delay	1	0
Switching (Typ.)	1	0



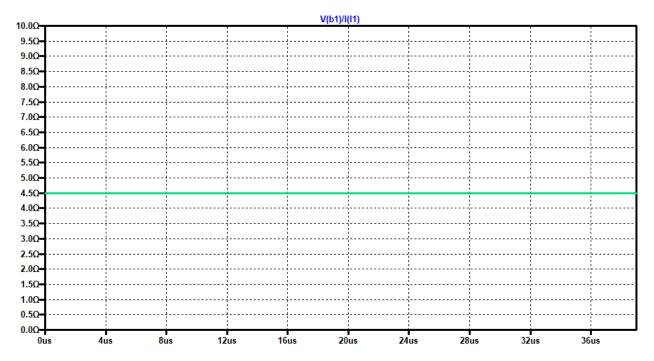
RON Testbench

Referred to Data Sheet



Explanatory notes -: simulated

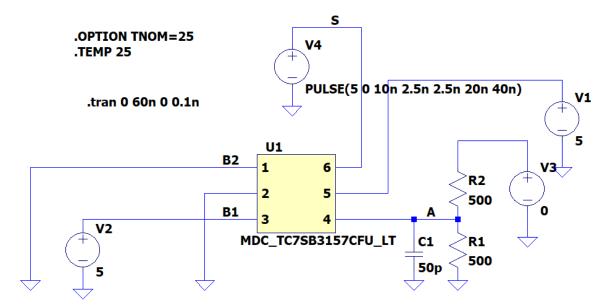
RON





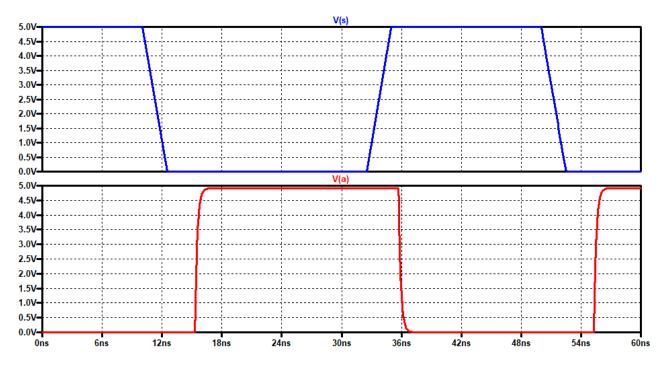
Switching Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes -: simulated

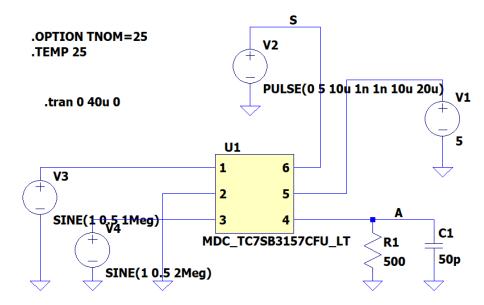
Switching





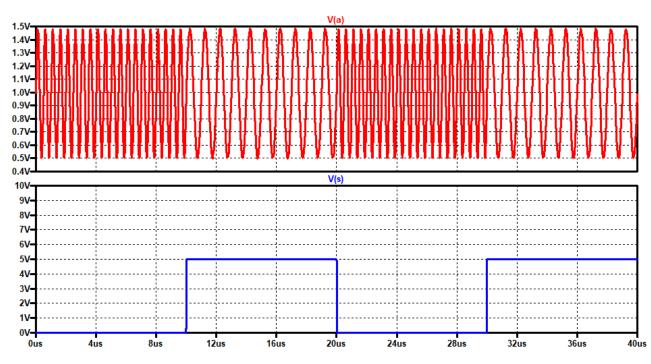
Transient Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes -: simulated

Transient





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