

LTspice Model

Bridge Diode

Shindengen

LL25XB60

Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_LL25XB60_LT
Pin Assign 1:1 2:2 3:3 4:4
File List Model Library MDC_LL25XB60_LT.lib
 Model Report MDC_LL25XB60_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 Rev.02(2022-03)
- Product name LL25XB60
- Company name Shindengen Electric Manufacturing Co., Ltd.

[Characteristics listed]

- Characteristics IfVf[Temp]

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.	
Temperature	25	to	150	deg C

Diode

○ : Implemented
 × : Not Implemented
 – : Not applicable

Model Functions Table

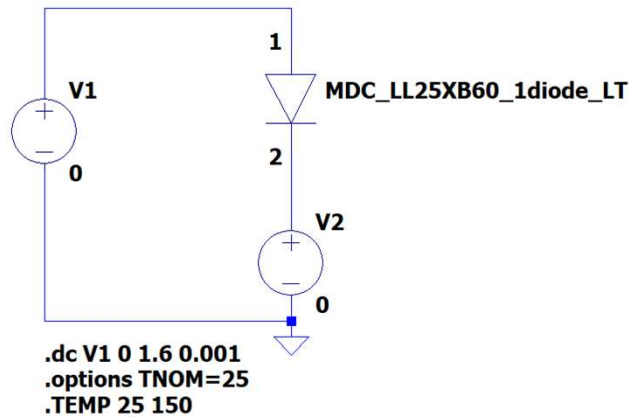
RANK=1

Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	–
Capacitance	1	–
Reverse recovery characteristics	1	–

IfVf[Temp] Testbench

Referred to Data Sheet

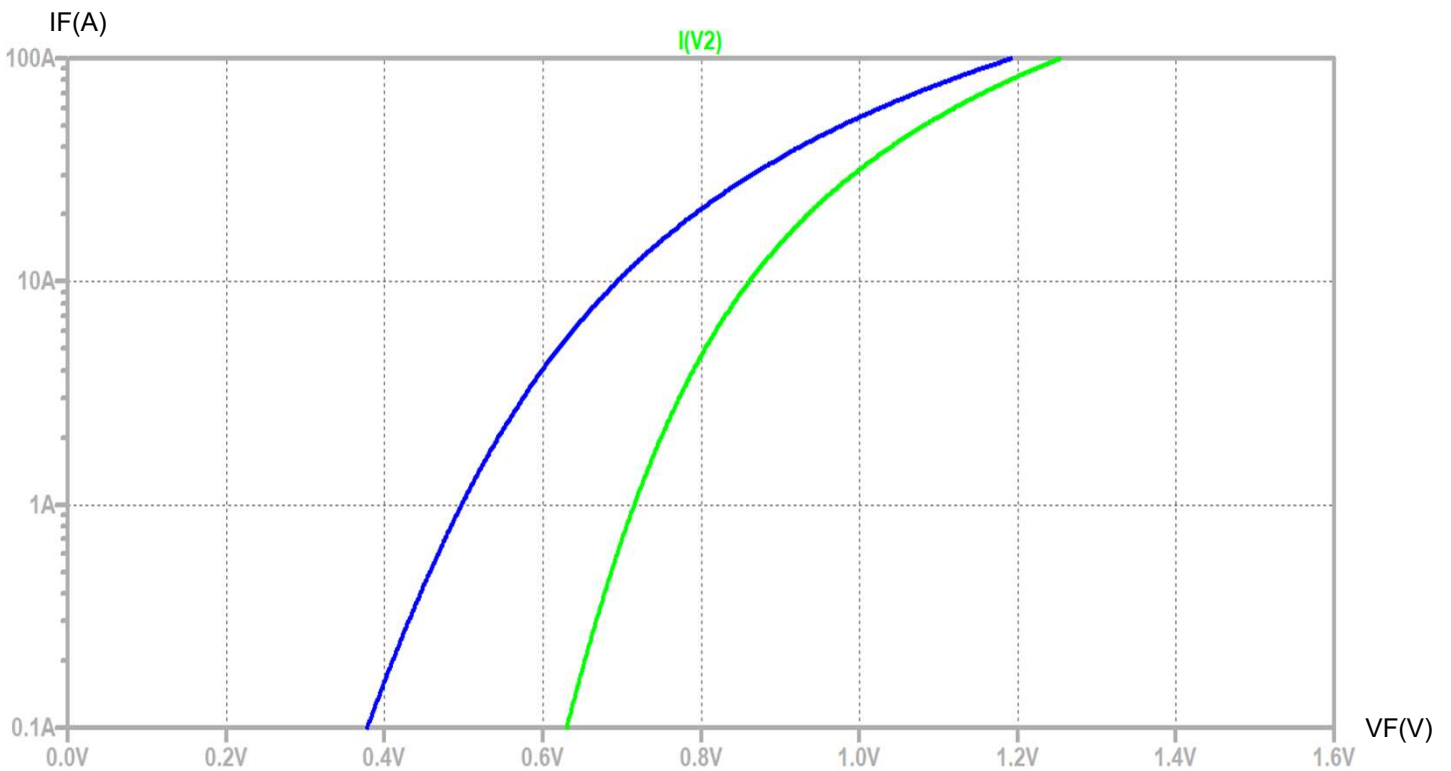
IfVf[Temp]



※The diode used in above testbench is one of the diodes inside the bridge rectifier.

Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]



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