

LTspice Model Rectifier Diode SHINDENGEN D1N60-5070



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_D1N60-5070_LT
Pin Assign 1:C 2:A
File List Model Library MDC_D1N60-5070_LT01.lib
 Model Report MDC_D1N60-5070_LT.pdf (this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Rev.01(2020.01)
- Product name D1N60-5070
- Company name Shindengen Electric Manufacturing Co., Ltd.
- Characteristics IfVf[Temp],IrrVr[Temp],SurgeWaveform

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.	
Reverse Voltage	0	to	600	V
Temperature	-55	to	150	deg C

Diode

○ : Implemented
× : Not Implemented
— : Not applicable

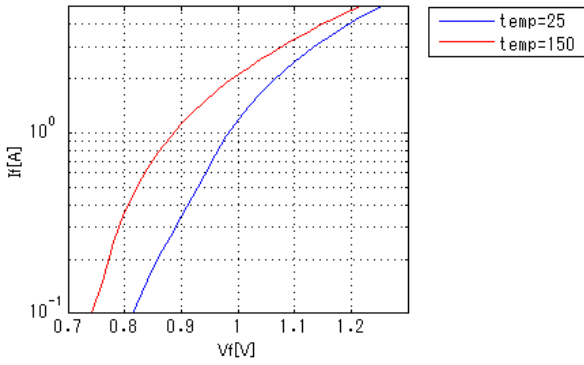
Model Functions Table

RANK=1

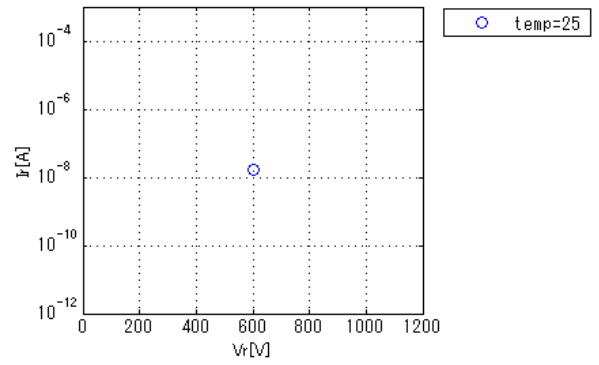
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	—
Reverse recovery characteristics	1	—
Rectification characteristics(Bridge)	1	—
Surge current-Transient	1	○

Simulation results are following.
 Explanatory notes — : simulated

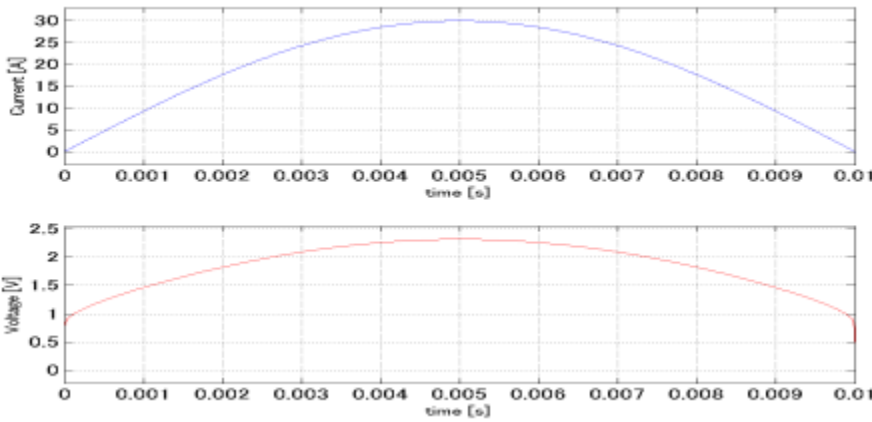
IfVf[Temp]



IrVr[Temp]



Surge Waveform (50Hz forward half sine Blue : Input Current Red : Sim Voltage)



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