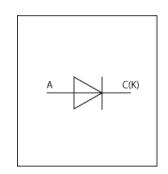


PSpice Model Rectifier Diode SHINDENGEN D1N60-5070



Model Information

Model A macro model based on general SPICE diode model

Call Name MDC D1N60-5070 PS

Pin Assign 1:C 2:A

File List Model Library MDC_D1N60-5070_PS01.lib

Model Report MDC_D1N60-5070_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 17.2

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],IrVr[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

O: Implemented

×: Not Implemented

—: Not applicable

Model Functions Table RANK=1

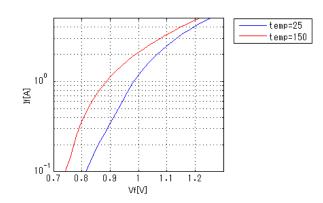
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Capacitance	1	-
Reverse recovery characteristics	1	
Rectification characteristics(Bridge)	1	
Surge current-Transient	1	0

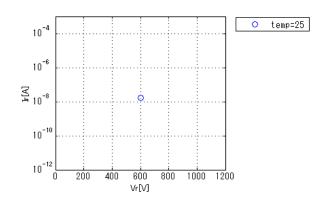


Simulation results are following. Explanatory notes — : simulated

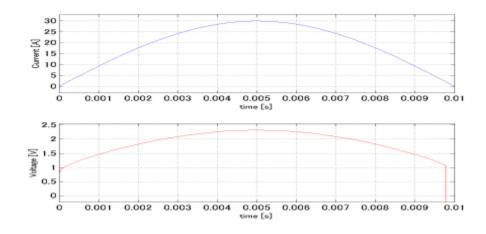
IfVf[Temp]

IrVr[Temp]





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





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