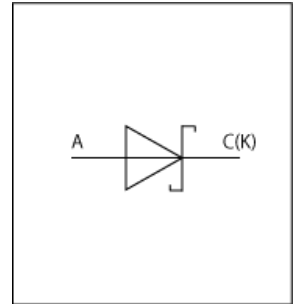


LTspice Model Schottky Diode VISHAY INTERTECH V1FL45



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_V1FL45_LT
Pin Assign 1:A 2:C
File List Model Library MDC_V1FL45_LT01.lib
 Model Report MDC_V1FL45_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 Revision: 13-May-2020
- Product name V1FL45
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr[Temp],CjVr,IfVf[Temp],SurgeForwardCurrentWaveform

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	45	to	45	V
Temperature	-55	to	150	deg C

Diode

○ : Implemented
× : Not Implemented
— : Not applicable

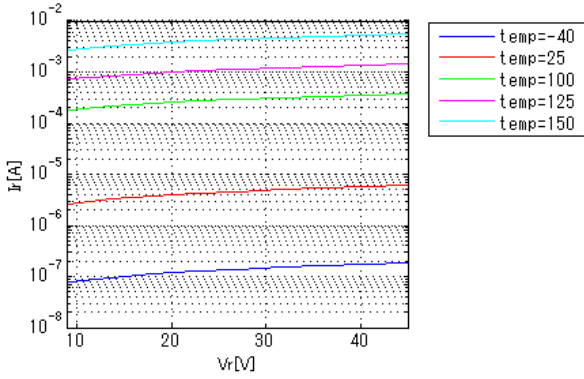
Model Functions Table

RANK=1

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

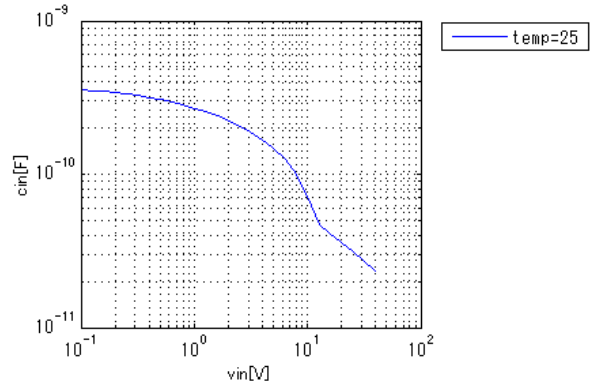
Simulation results are following.
 Explanatory notes — : simulated

IrVr[Temp]

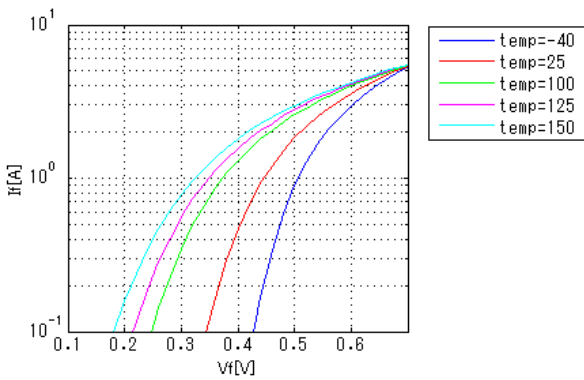


CjVr

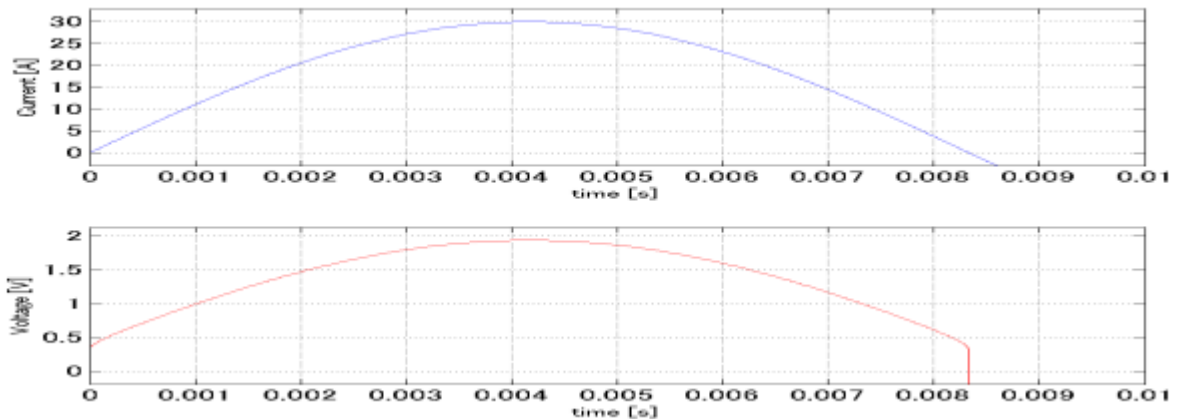
Freq = 1000000Hz



IfVf[Temp]



Surge Forward Current Waveform



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