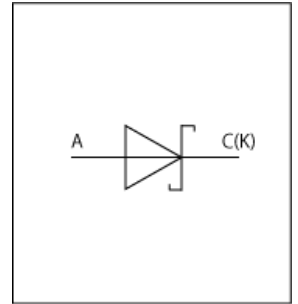


LTspice Model Schottky Diode (SiC) Infineon IDH10G65C5



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_IDH10G65C5_LT
Pin Assign 1:C 2:A
File List Model Library MDC_IDH10G65C5_LT01.lib
 Model Report MDC_IDH10G65C5_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.2.2,2012-12-10
- Product name IDH10G65C5
- Company name Infineon Technologies AG
- Characteristics IfVf[Temp],IfVf[Temp]2,IrVr[Temp],CjVr

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	650	V
Temperature	-55	to	175	deg C

Diode

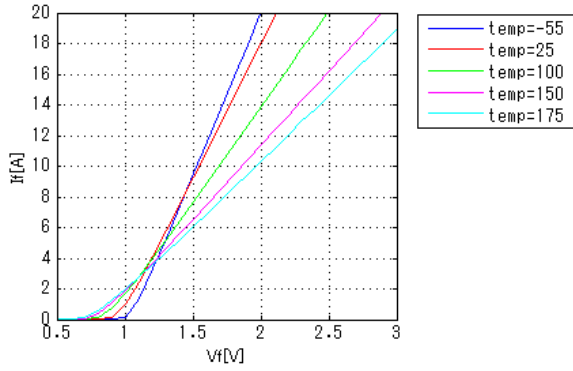
○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table
RANK=1

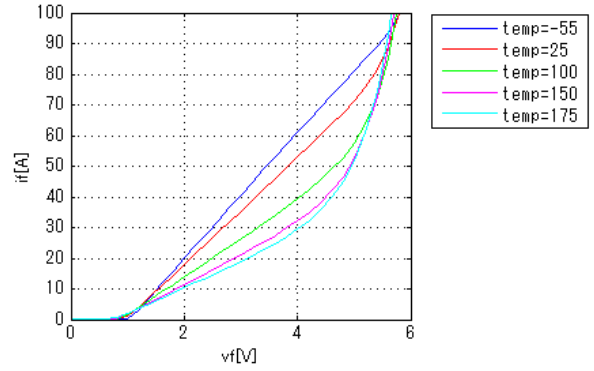
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	—
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge voltage-Transient	1	—

Simulation results are following.
 Explanatory notes — : simulated

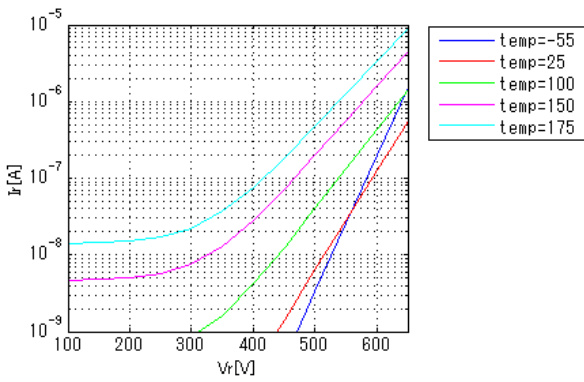
IfVf[Temp]



IfVf[Temp]2

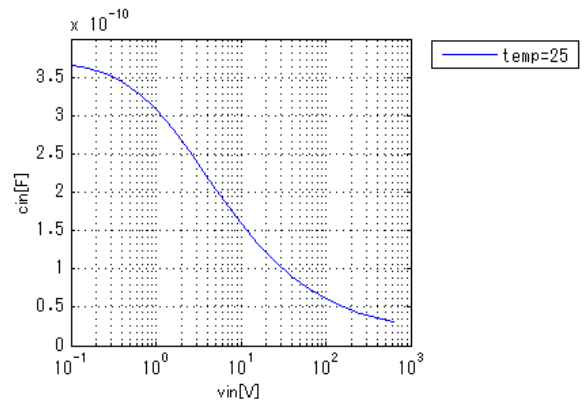


IrVr[Temp]



CjVr

Freq = 1000000Hz



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