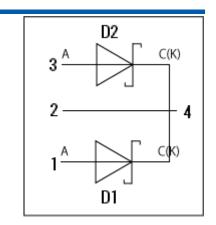


LTspice Model Schottky Diode KYOCERA KCH30A10



Model Information

Model A macro model based on general SPICE diode model

Call Name MDC_KCH30A10_LT Pin Assign 1:A1 2:C1C2 3:A2 4:C1C2

File List Model Library MDC_KCH30A10_LT01.lib

Model Report MDC_KCH30A10_LT.pdf (this file)

Verified Simulator Version

Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameUnknownKCH30A10

Company name KYOCERA Corporation

● Characteristics IfVf[Temp],IrVr[Temp],CjVr,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	100	V
Temperature	-40	to	150	deg C



Model Functions Table

Diode

O:Implemented

× : Not Implemented

—: Not applicable

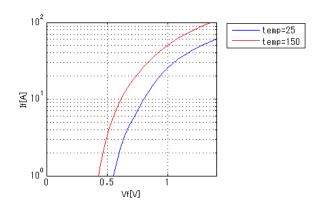
RANK=1

	IVAININ-1	
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Capacitance	1	0
Reverse recovery characteristics	1	_
Zz-Iz	1	_
Rectification characteristics(Bridge)	1	1
Surge-Transient	1	0
tlp	1	_

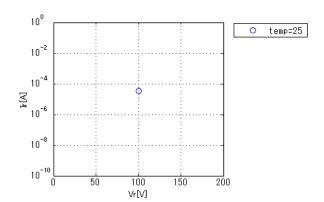


Simulation results are following. Explanatory notes — : simulated

IfVf[Temp]

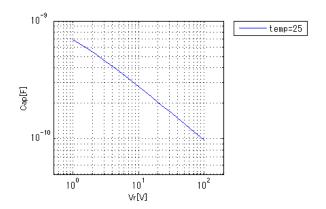


IrVr[Temp]



CjVr

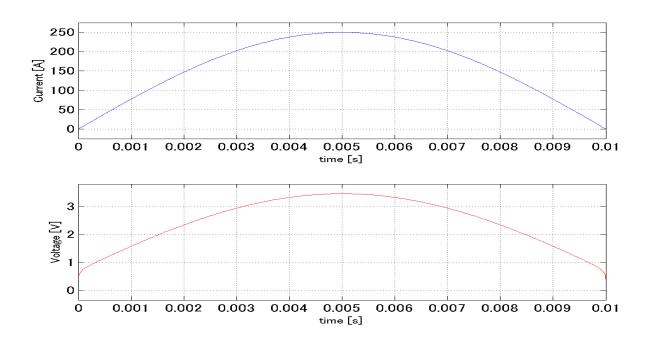
Freq = 1000000Hz





Simulation results are following. Explanatory notes — : simulated

Surge Current Waveform (Forward Sine Half 50Hz)





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