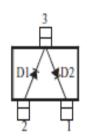


LTspice Model Switching Diode KEC KDS123U



Model Information

Model A macro model based on general SPICE diode model

Call Name MDC_KDS123U_LT

Pin Assign 1:C(D2) 2:A(D1) 3:A(D2),C(D1)

File List Model Library MDC_KDS123U_LT02.lib

Model Report MDC_KDS123U_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/Version 2008. 9. 8 Revision No : 1

Product nameCompany nameKEC Corporation

● Characteristics IfVf[Temp](D1),IfVf[Temp](D2),IrVr[Temp(D1)],IrVr[Temp](D2)

),CjVr(D1),CjVr(D2),SurgeWaveform(D1),SurgeWaveform(D

2)

Simulation Range

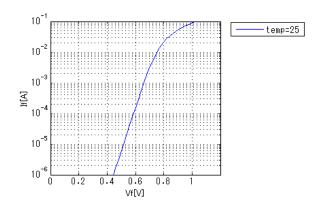
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	80	V
Temperature	-55	to	150	deg C

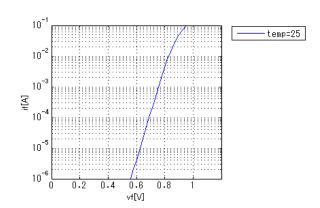


Simulation results are following. Explanatory notes — : simulated

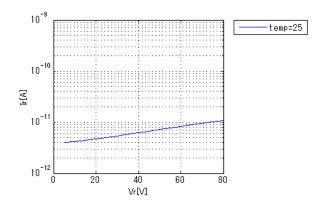
IfVf[Temp] (D1)



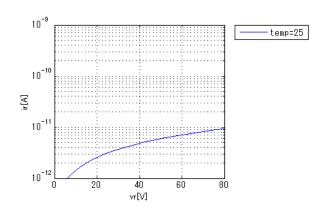
IfVf[Temp] (D2)



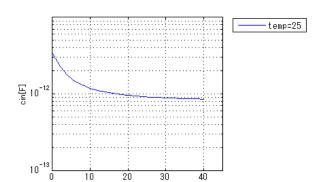
IrVr[Temp] (D1)



IrVr[Temp] (D2)

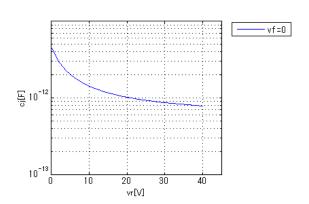


CjVr (D1) Freq. = 1MHz



vin[V]

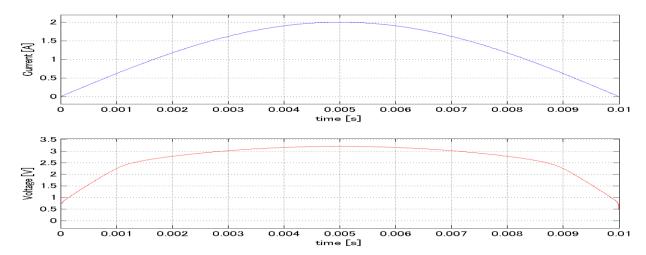
CjVr (D2) Freq. = 1MHz



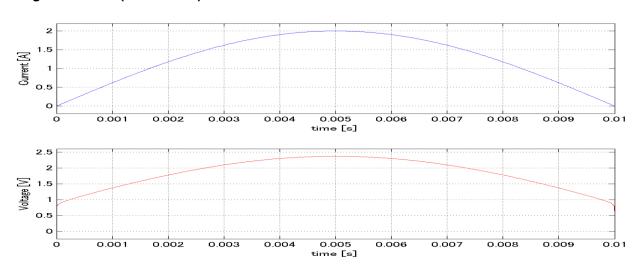


Simulation results are following. Explanatory notes — : simulated

Surge Waveform (Forward D1)



Surge Waveform (Forward D2)





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