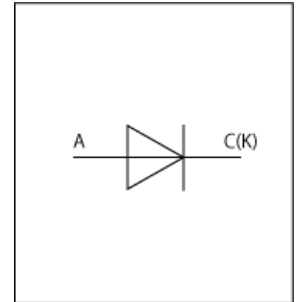


LTspice Model Switching Diode Nexperia BAS316



Model Information

Model	A macro model based on general SPICE diode model		
Call Name	MDC_BAS316_LT		
Pin Assign	1:C 2:A		
File List	Model Library	MDC_BAS316_LT01.lib	
	Model Report	MDC_BAS316_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	24 September 2014 Rev. 6
● Product name	BAS316
● Company name	Nexperia B.V.
● Characteristics	IfVf[Temp], IrVr[Temp], CjVr, Trr

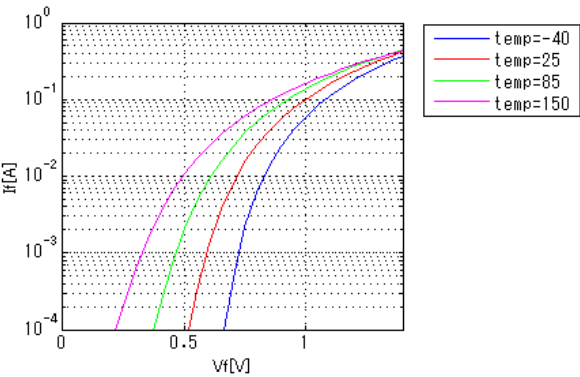
Simulation Range

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

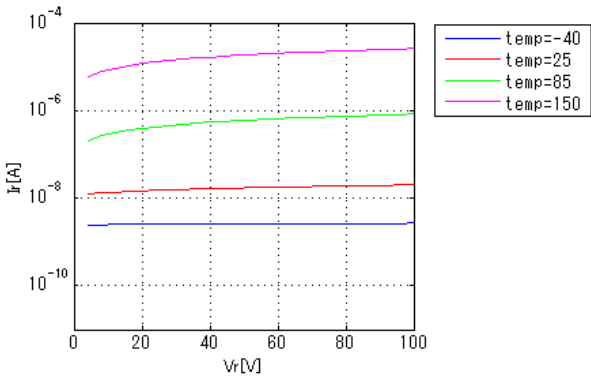
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	14	V
Reverse Voltage	0	to	200	V
Temperature	-65	to	150	deg C

Simulation results are following.
Explanatory notes — : simulated

IfVf[Temp]

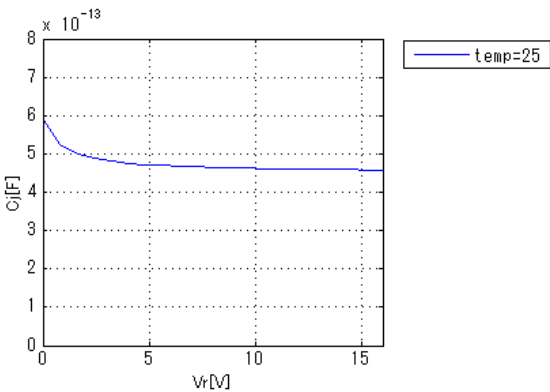


IrVr[Temp]

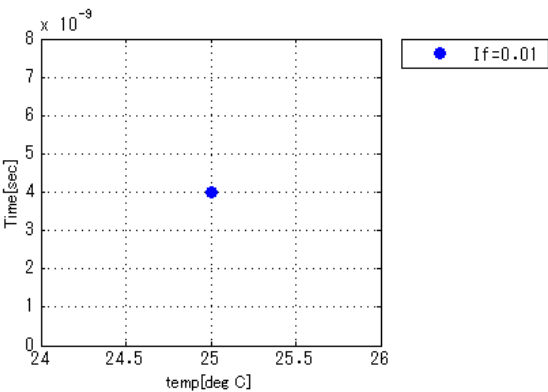


CjVr

Freq. = 1MHz



Trr



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