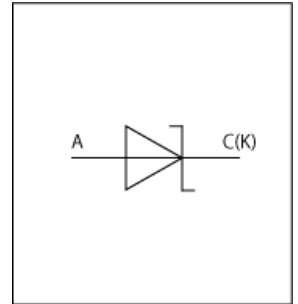


PSpice Model

Zener Diode

TAIWAN SEMICONDUCTOR

BZD27C16PW



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_BZD27C16PW_PS
Pin Assign 1:A 2:C
File List Model Library MDC_BZD27C16PW_PS01.lib
 Model Report MDC_BZD27C16PW_PS.pdf (this file)

Verified Simulator Version PSpice version 17.2
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Version:A1612
- Product name BZD27C16PW
- Company name Taiwan Semiconductor Co., Ltd.
- Characteristics IfVf[Temp],Irvr[Temp],CjVr,Surge Waveform

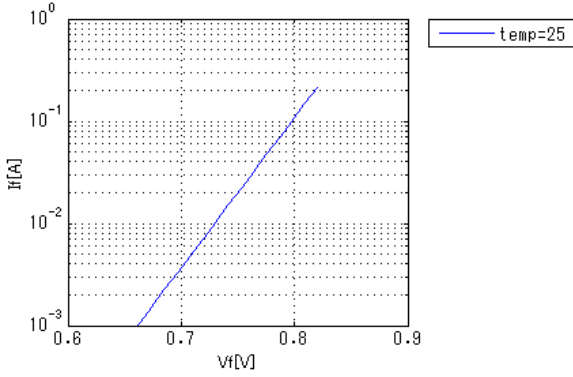
Simulation Range

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

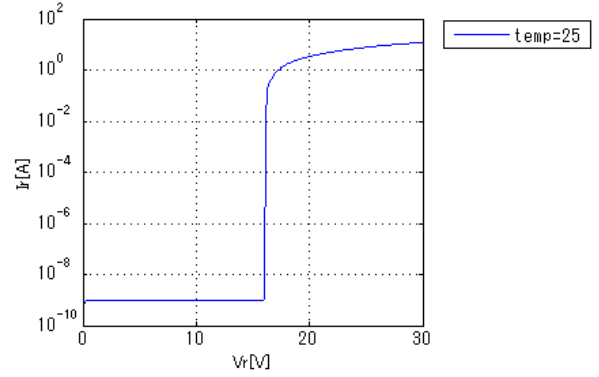
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	8	V
Reverse Voltage	0	to	32	V
Temperature	-55	to	175	deg C

Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

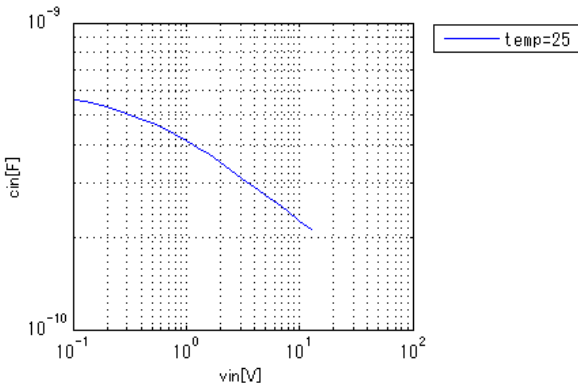


IrVr[Temp]

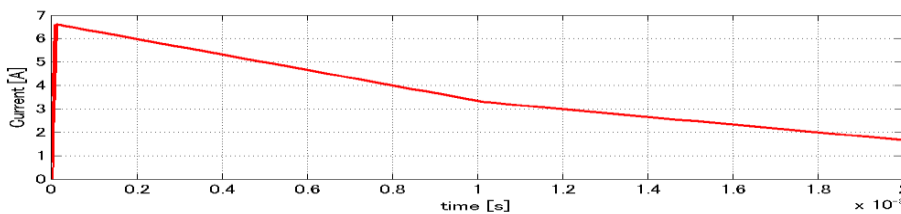
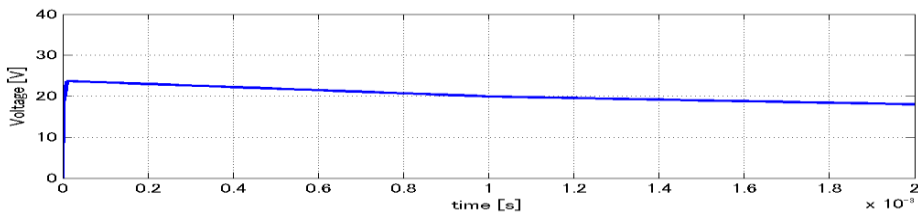


CjVr

Freq. = 1MHz



Surge Waveform



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