

# PSpice Model

## Zener Diode

### Nexperia

### BZX84-B2V7



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_BZX84-B2V7\_PS  
**Pin Assign** 1:A 2:n.c. 3:K  
**File List** Model Library MDC\_BZX84-B2V7\_PS01.lib  
 Model Report MDC\_BZX84-B2V7\_PS.pdf (this file)

**Verified Simulator Version** PSpice version 16.6  
**Note**

### References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Rev. 006
- Product name BZX84-B2V7
- Company name Nexperia B.V.
- Characteristics IfVf[Temp],IrVr[Temp],CjVr,BvTemp,IrVr(Breakdown)

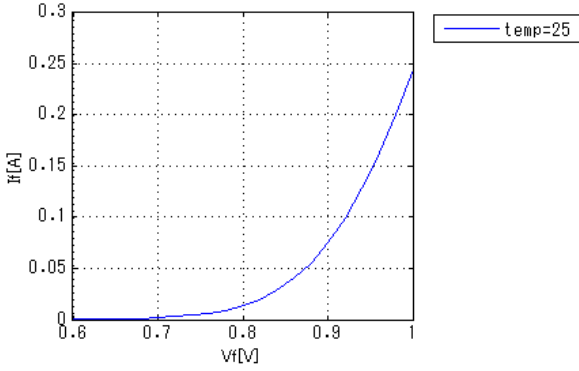
### Simulation Range

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

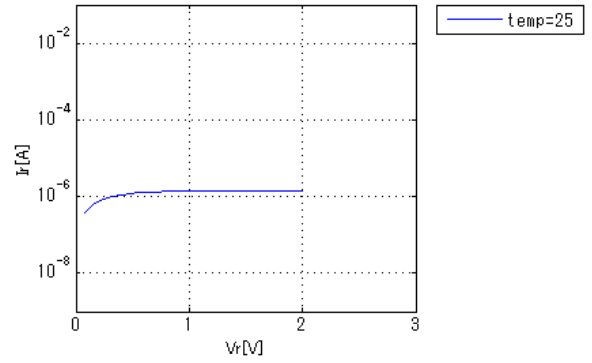
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	10	V
Reverse Voltage	0	to	5	V
Temperature	-55	to	150	deg C

Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

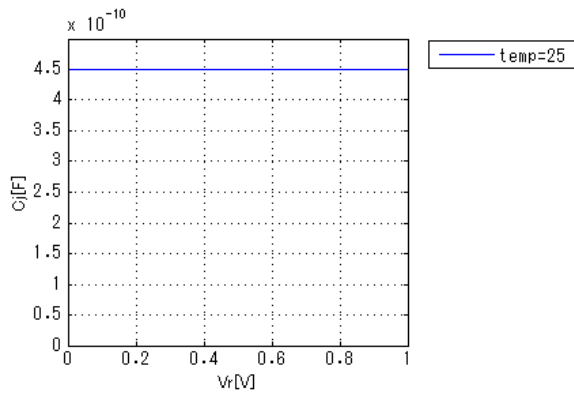


**IrVr[Temp]**

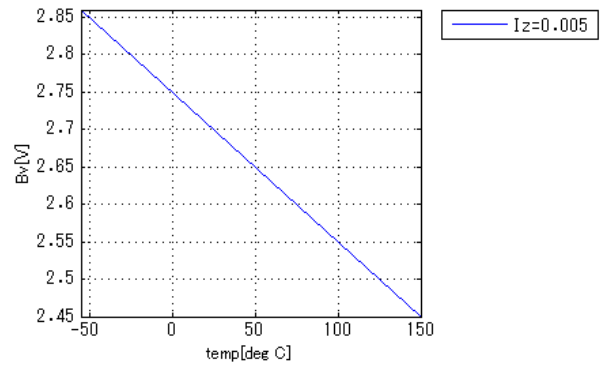


**CjVr**

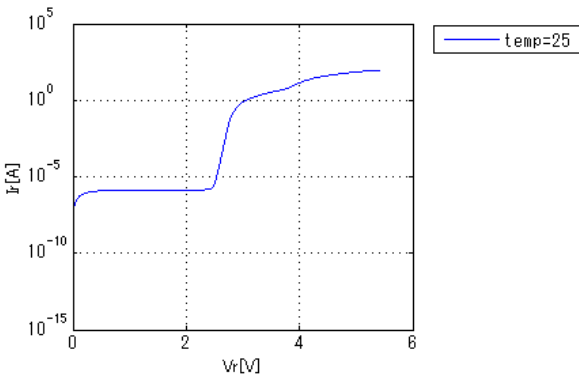
Freq. = 1MHz



**BvTemp**



**IrVr(Breakdown)**



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