

PSpice Model

Transient Voltage Suppressors Diode

Nexperia

BZX84-C15

Model Information

Model A macro model
Call Name MDC_BZX84-C15_PS
Pin Assign 1:A 2:nc 3:C
File List Model Library MDC_BZX84-C15_PS.lib
 Model Report MDC_BZX84-C15_PS.pdf

Verified Simulator Version

Note

References

The information which was used for modeling is as follow:

- [Data Sheet]
- Date/Version 6 March 2014
 - Product name BZX84-C15
 - Company name Nexperia

[Characteristics listed]

- Characteristics IfVf,IrVr,CjVr

Simulation Condition

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

Item	Condition	Unit
Temperature	25	deg C

Diode

○ : Implemented
× : Not Implemented
— : Not applicable

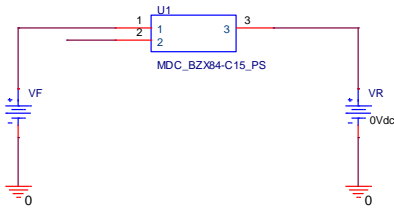
Model Functions Table

RANK=1

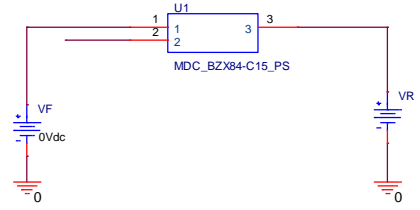
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	—
Rectification characteristics(Bridge)	1	—
Surge voltage-Transient	2	—

Simulation results are following.
 Explanatory notes — : simulated

IfVf Testbench

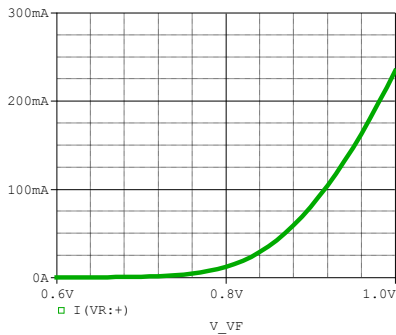


IrVr Testbench

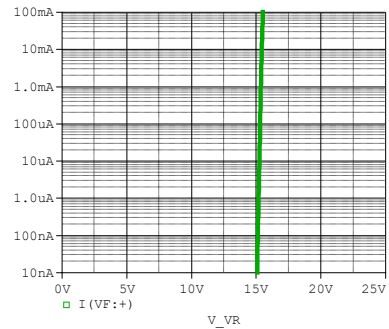


IfVf Data Sheet

Tj=25°C

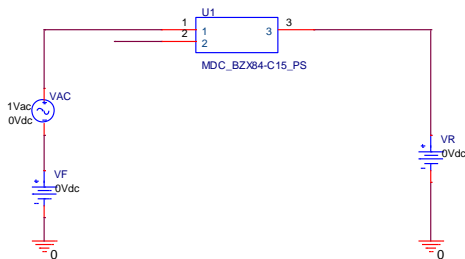


IrVr Data sheet

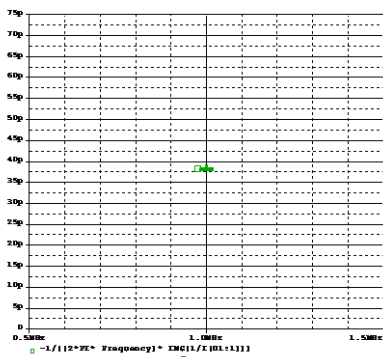


CjVr Testbench

Symbol	CONDITIONS	MIN.	MAX.	UNIT
Working Voltage Vz	Iz = 5 mA	13.8	15.6	V



CjVr Data Sheet



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