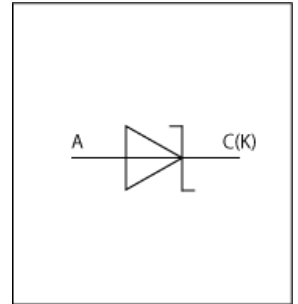


# LTspice Model

## Zener Diode

### ROHM

### PDZVTR15B



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_PDZVTR15B\_LT  
**Pin Assign** 1:C 2:A  
**File List** Model Library MDC\_PDZVTR15B\_LT01.lib  
 Model Report MDC\_PDZVTR15B\_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 2019/04/19\_Rev.005
- Product name PDZVTR15B
- Company name ROHM Co., Ltd.
- Characteristics VrI<sub>r</sub>[Temp], IrV<sub>r</sub>[Temp], IfV<sub>f</sub>[Temp], C<sub>j</sub>V<sub>r</sub>

### 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	16	V
Temperature	-55	to	150	deg C

Diode

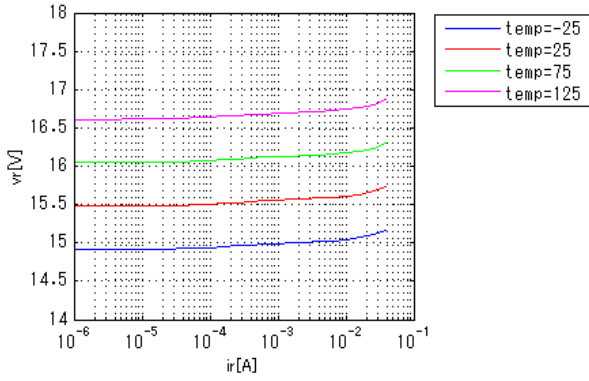
○ : Implemented  
× : Not Implemented  
— : Not applicable

**Model Functions Table**
**RANK=1**

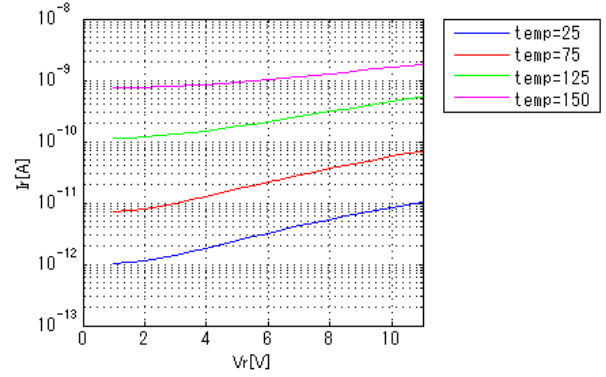
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	—
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge-Transient	1	—
tlp	1	—

Simulation results are following.  
 Explanatory notes — : simulated

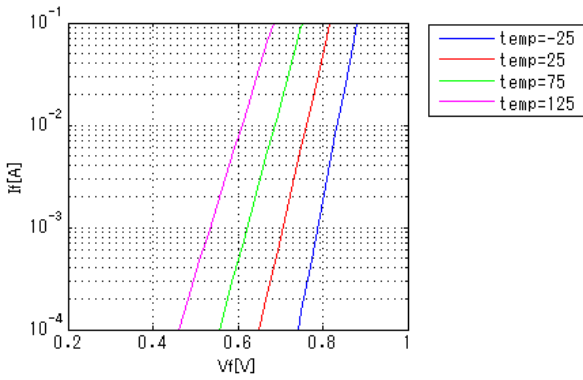
**VrIr[Temp]**



**IrVr[Temp]**

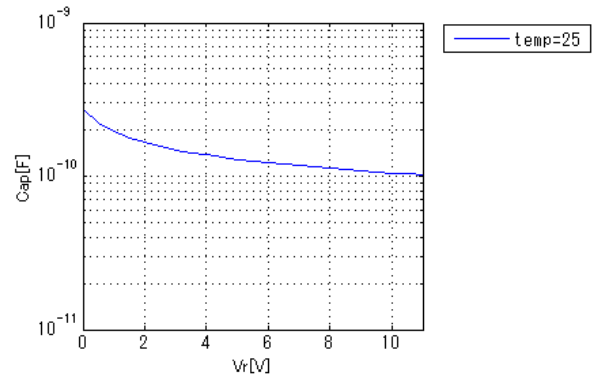


**IfVf[Temp]**



**CjVr**

Freq = 1000000Hz



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