

# LTspice Model

## Zener Diode

### ROHM

### KDZTF18B



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_KDZTF18B\_LT  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_KDZTF18B\_LT01.lib  
 Model Report MDC\_KDZTF18B\_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 2015/08/06\_Rev.001
- Product name KDZTF18B
- Company name ROHM Co., Ltd.
- Characteristics IrVr[Temp],CjVr,IfVf[Temp],IrVr(Breakdown)

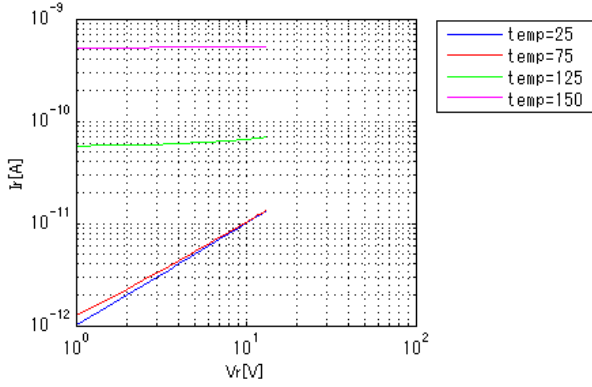
### Simulation Range

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	9	V
Reverse Voltage	0	to	38	V
Temperature	-55	to	150	deg C

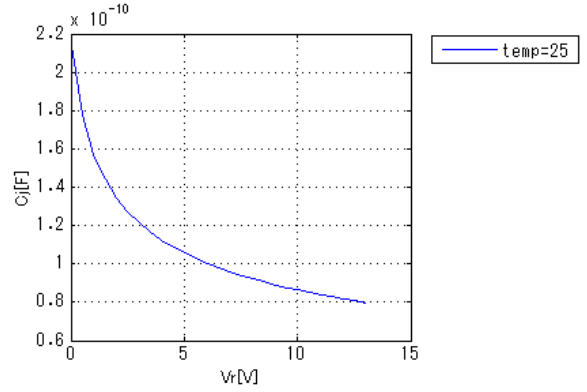
Simulation results are following.  
 Explanatory notes — : simulated

**IrVr[Temp]**

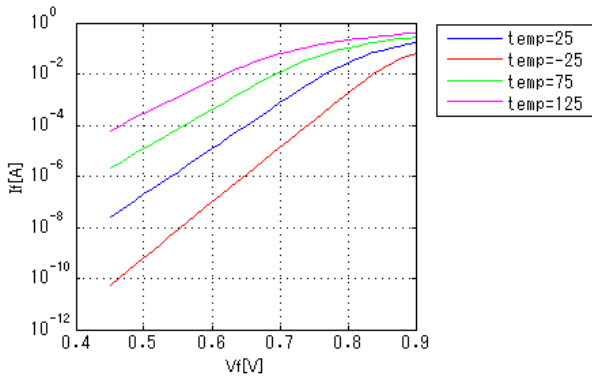


**CjVr**

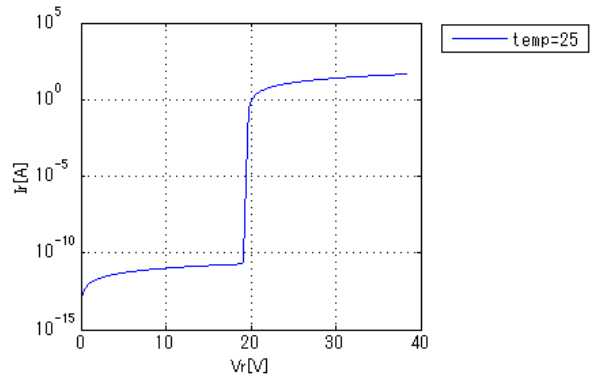
Freq. = 1MHz



**IfVf[Temp]**



**IrVr(Breakdown)**



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