

# PSpice Model

## Zener Diode

### Panasonic Corporation

### DZ2W39000L



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_DZ2W39000L\_PS  
**Pin Assign** 1:C 2:A  
**File List** Model Library MDC\_DZ2W39000L\_PS01.lib  
 Model Report MDC\_DZ2W39000L\_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 2013-05-08
- Product name DZ2W39000L
- Company name Panasonic Corporation
- Characteristics IfVf[Temp],IrVr[Temp],CjVr,BvTemp, IzVz[Temp],IrVr(Breakdown)

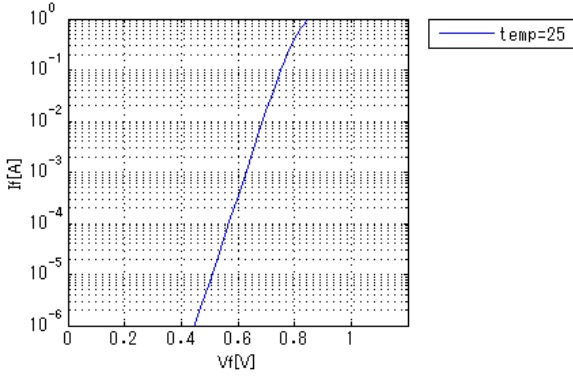
#### Simulation Range

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

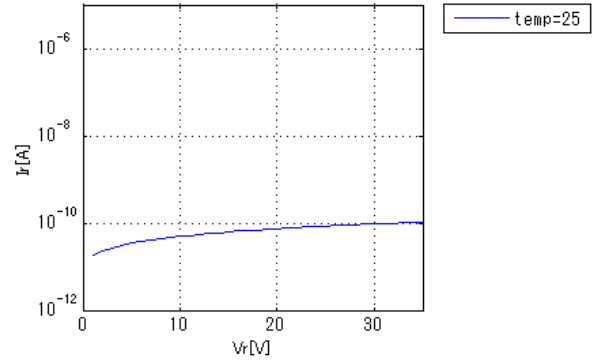
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	12	V
Reverse Voltage	0	to	78	V
Temperature	-55	to	150	deg C

Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

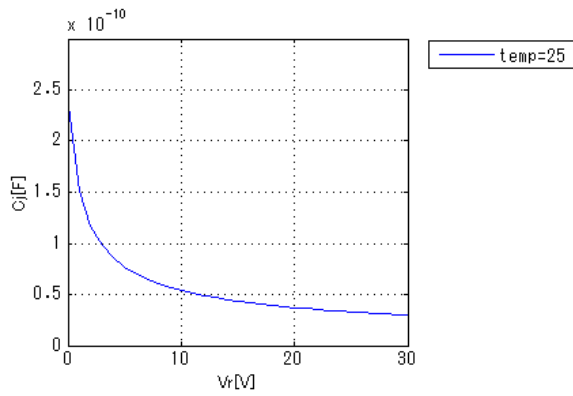


**IrVr[Temp]**

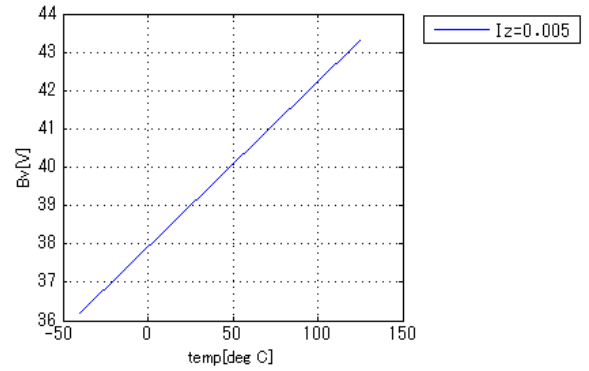


**CjVr**

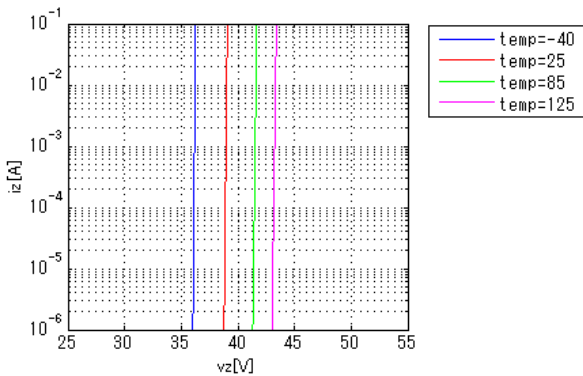
Freq. = 1MHz



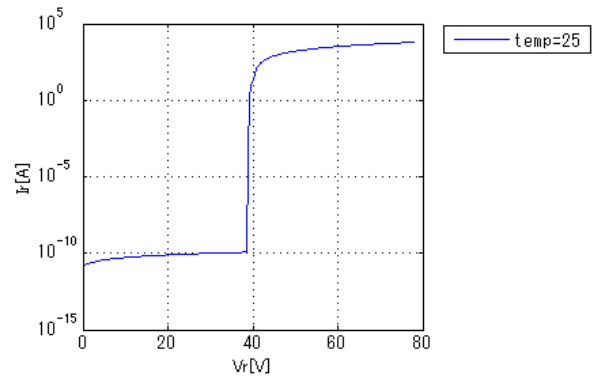
**BvTemp**



**IzVz[Temp]**



**IrVr(Breakdown)**



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