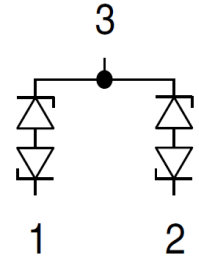


PSpice Model

Zener Diode

VISHAY INTERTECH

VCAN26A2-03S



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_VCAN26A2-03S_PS
Pin Assign 1:C 2:C 3:C × 2
File List Model Library MDC_VCAN26A2-03S_PS01.lib
 Model Report MDC_VCAN26A2-03S_PS.pdf (this file)

Verified Simulator Version PSpice version 17.2
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Rev. 1.4, 01-Feb-2022
- Product name VCAN26A2-03S
- Company name Vishay Intertechnology, Inc.
- Characteristics CjVr, VrIr[Temp], VrIr[Temp]2, IrVr[Temp], SurgeReverseCurrentWaveform(1A), SurgeReverseCurrentWaveform(3A)

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.	
Zener Voltage	28(at 1mA)	to	32(at 1mA)	V
Clamping Voltage(max)	39(at 3A)	to	39(at 3A)	V
Temperature	-55	to	150	deg C

Diode

○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table

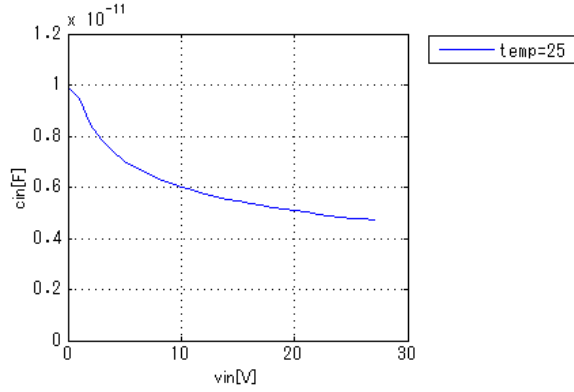
RANK=1

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

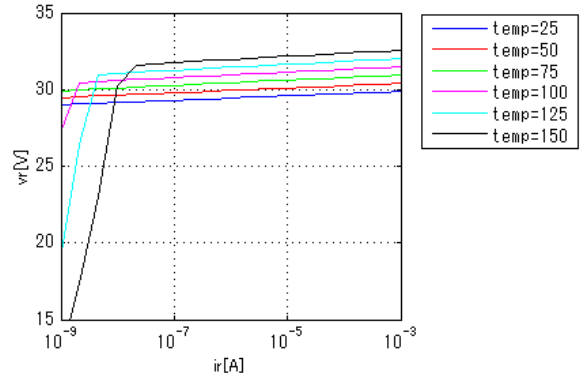
Simulation results are following.
 Explanatory notes — : simulated

CjVr

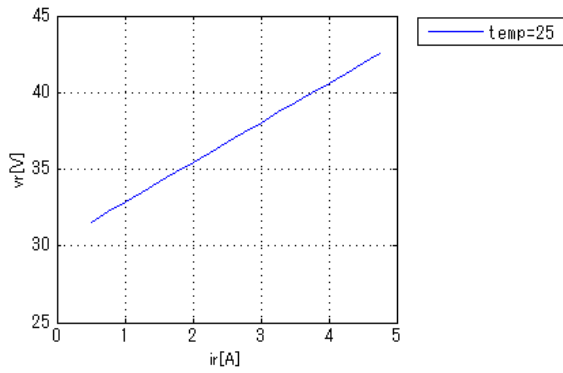
Freq = 1000000Hz



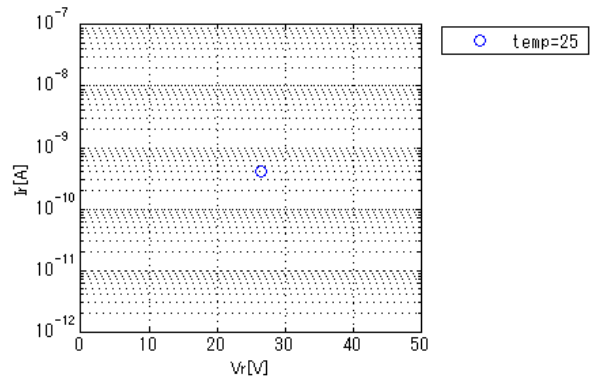
VrIr[Temp] (Zener Voltage)



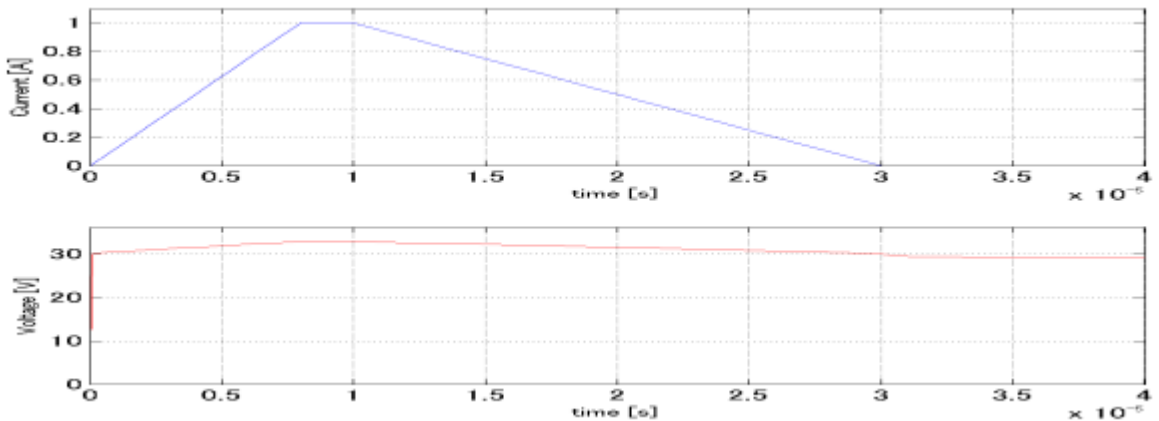
VrIr[Temp]2 (Clamping Voltage)



IrVr[Temp] (Leak Current)



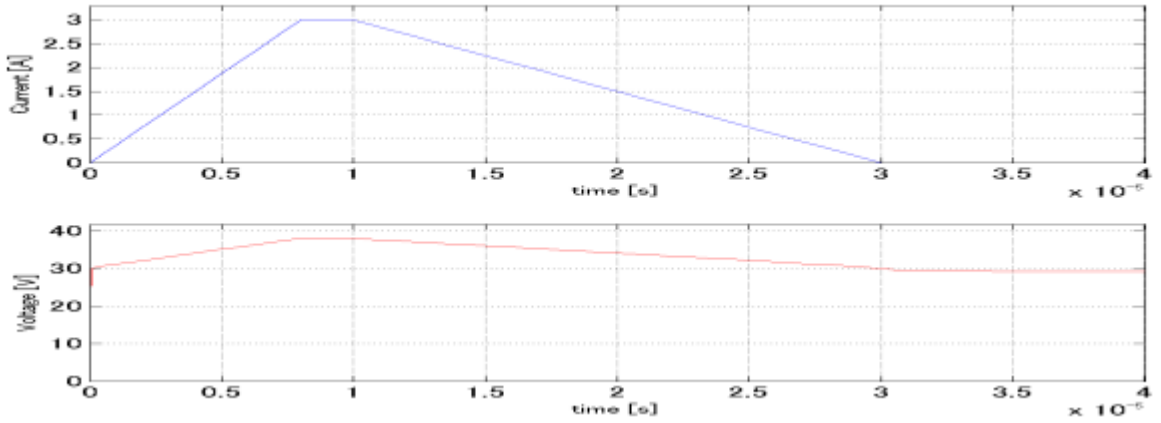
Surge Reverse Current Waveform (1A)



Simulation results are following.

Explanatory notes — : simulated

Surge Reverse Current Waveform (3A)



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