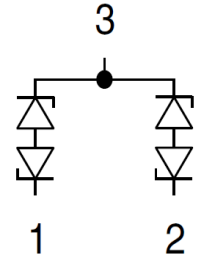# LTspice Model
Zener Diode
VISHAY INTERTECH
VCAN26A2-03S

Model Information

Model	A macro model based on general SPICE diode model
Call Name	MDC_VCAN26A2-03S_LT
Pin Assign	1:C 2:C 3:C × 2
File List	Model Library MDC_VCAN26A2-03S_LT01.lib
	Model Report MDC_VCAN26A2-03S_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 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
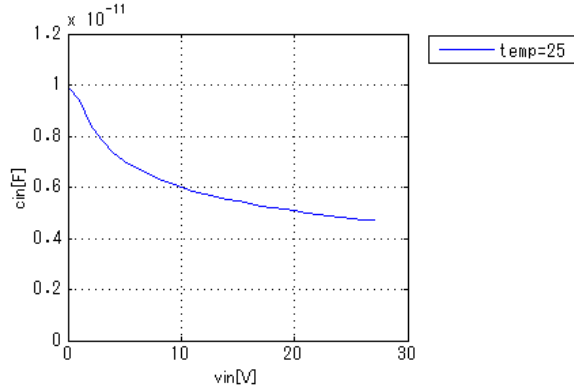× : Not Implemented
― : Not applicable

Model Functions Table

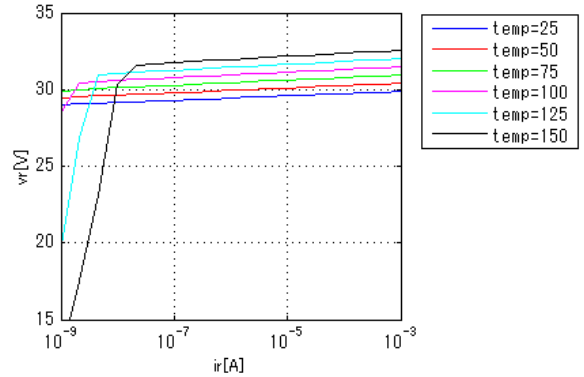|	RANK=1	
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	―
Rectification characteristics(Bridge)	1	―

Simulation results are following.
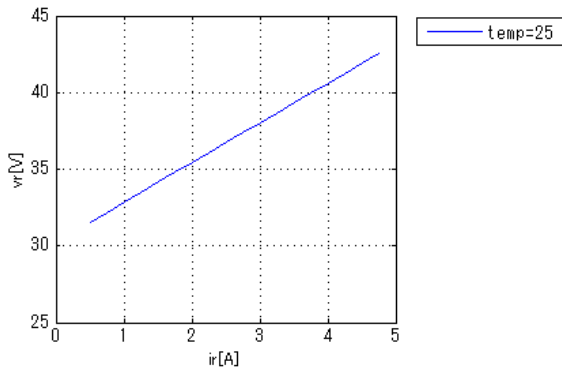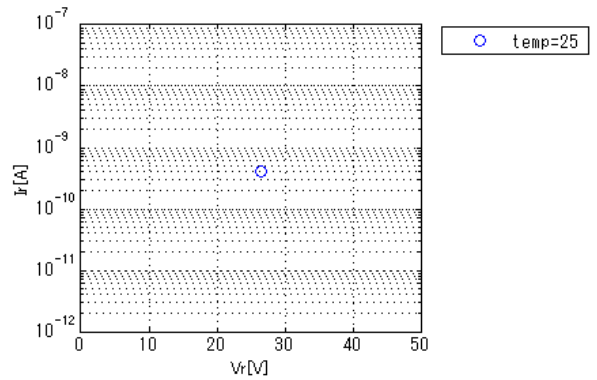Explanatory notes　　— : simulated

CjVr

Freq = 1000000Hz

VrIr[Temp] (Zener Voltage)

VrIr[Temp]2 (Clamping Voltage)

IrVr[Temp] (Leak Current)

Surge Reverse Current Waveform (1A)

June 24, 2022
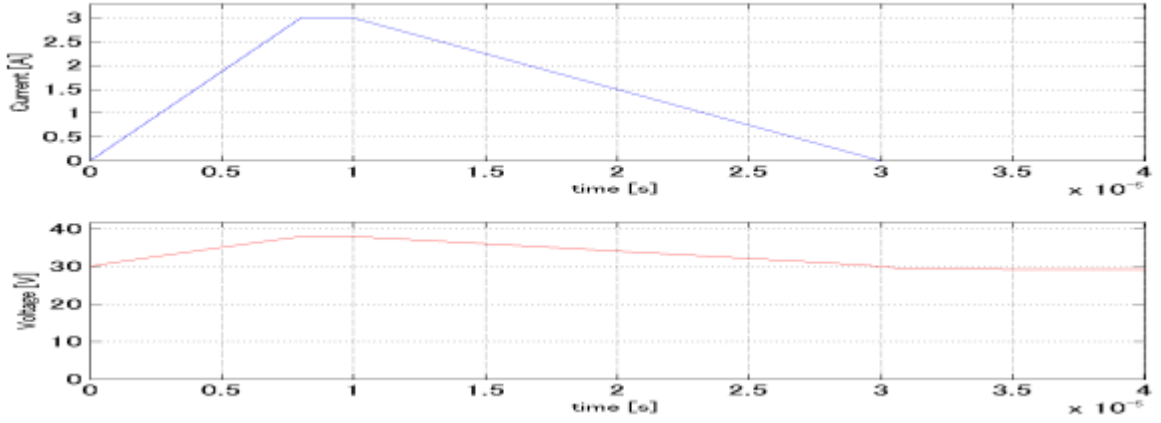Rev. 1.0
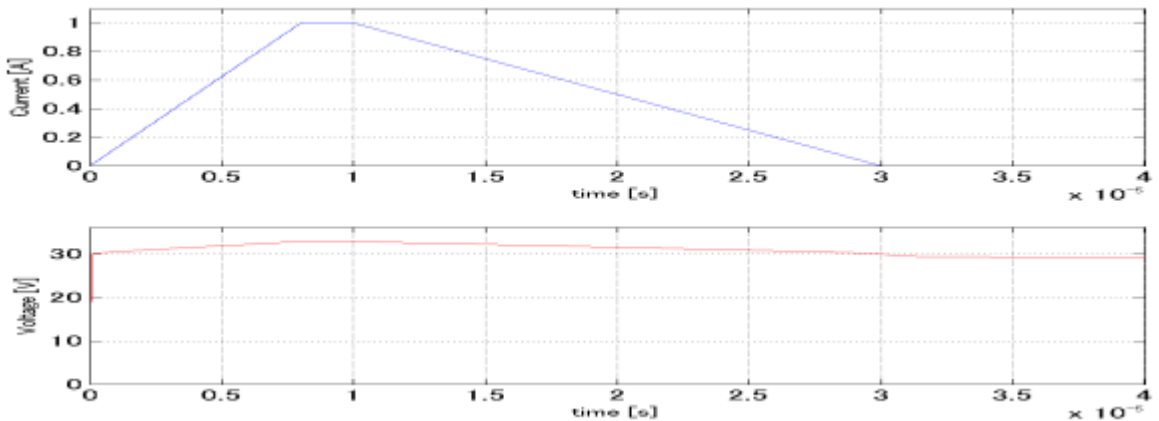
Simulation results are following.
Explanatory notes   — : simulated

Surge Reverse Current Waveform (3A)

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