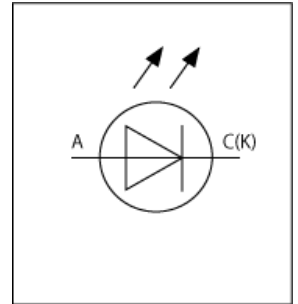


PSpice Model

Light Emitting Diode

STANLEY

VXGW1151CDS-3BYK3-Y-TR



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_VXGW1151CDS-3BYK3-Y-TR_PS
Pin Assign 1:A 2:C
File List Model Library MDC_VXGW1151CDS-3BYK3-Y-TR_PS01.lib
 Model Report MDC_VXGW1151CDS-3BYK3-Y-TR_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 2022.11.28
- Product name VXGW1151CDS-3BYK3-Y-TR
- Company name STANLEY ELECTRIC CO., LTD.
- Characteristics IfVf[Temp], VfTemp[If], IrVr[Temp], SurgeWaveform

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	5	V
Temperature	-40	to	110	deg C

Diode

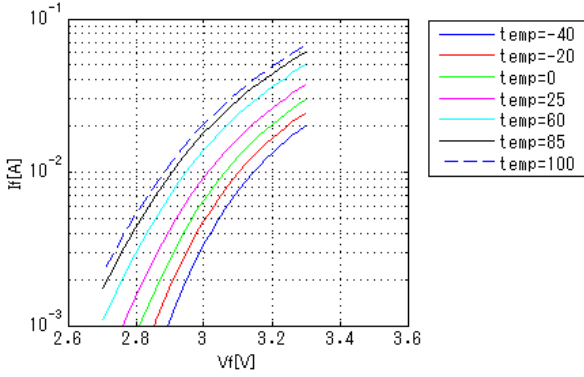
○ : Implemented
 × : Not Implemented
 — : Not applicable

Model Functions Table

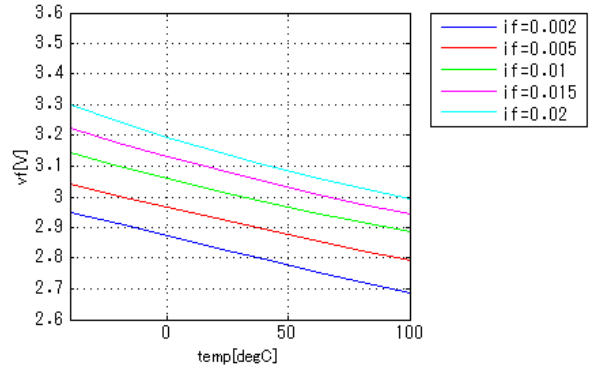
		RANK=1
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	—
Reverse recovery characteristics	1	—
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge-Transient	1	○
tlp	1	—

Simulation results are following.
 Explanatory notes — : simulated

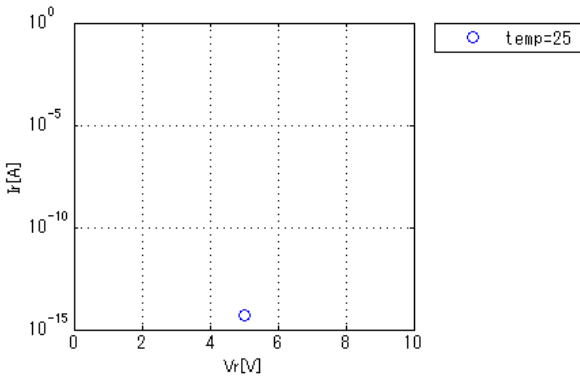
IfVf[Temp]



VfTemp[If]



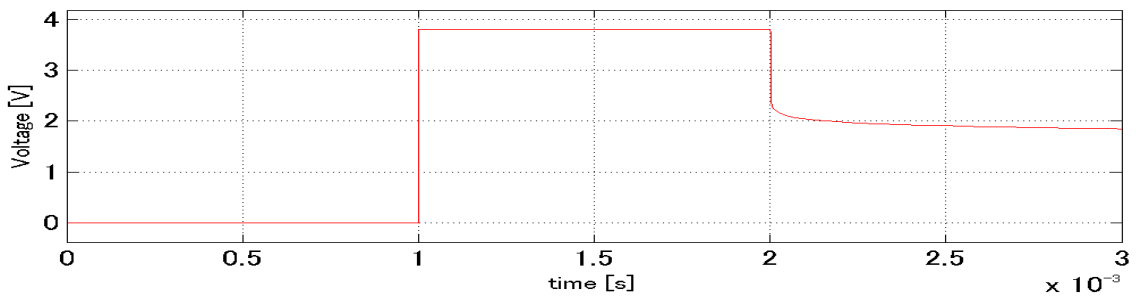
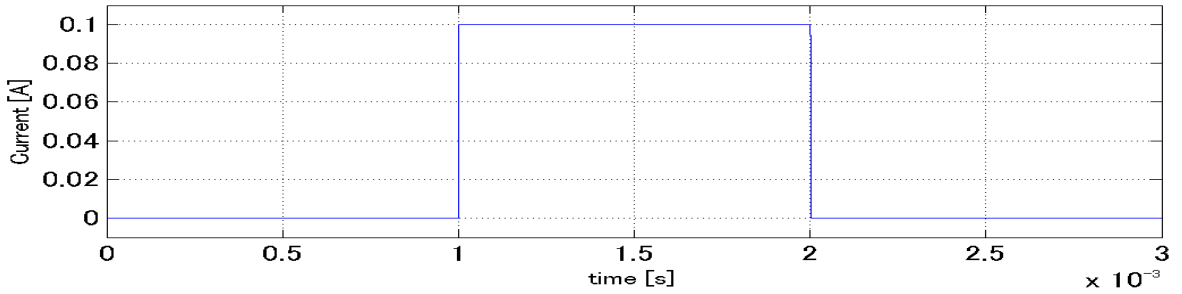
IrVr[Temp]



Simulation results are following.

Explanatory notes — : simulated

Surge Current Waveform (Forward $t_p=1\text{ms}$)



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