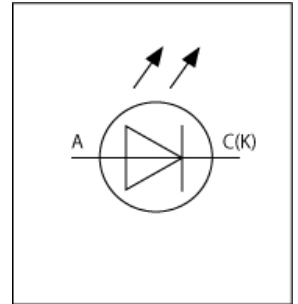


# LTspice Model

## Light Emitting Diode

### STANLEY

### VXLW1155GDS-3D7K3-Y-TR



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_VXLW1155GDS-3D7K3-Y-TR\_LT  
**Pin Assign** 1:C 2:A  
**File List** Model Library MDC\_VXLW1155GDS-3D7K3-Y-TR\_LT01.lib  
 Model Report MDC\_VXLW1155GDS-3D7K3-Y-TR\_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 2020.10.30
- Product name VXLW1155GDS-3D7K3-Y-TR
- Company name STANLEY ELECTRIC CO., LTD.
- Characteristics IfVf[Temp], VfTemp[If], 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	120	deg C

## Diode

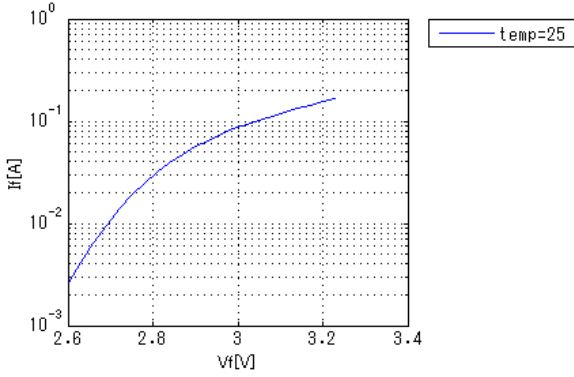
○ : Implemented  
× : Not Implemented  
— : Not applicable

**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	—

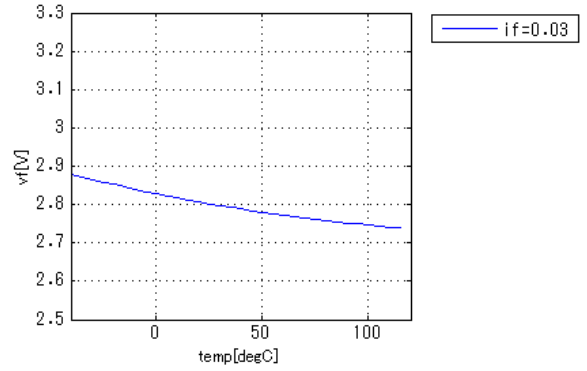
Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

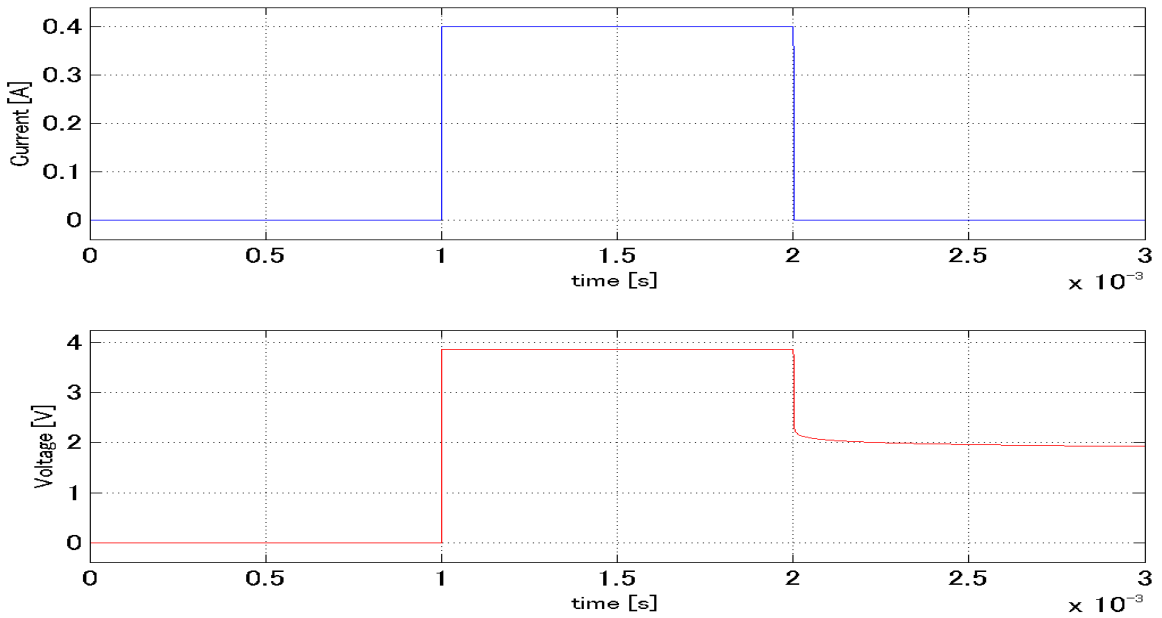


**VfTemp[If]**

if = 0.03



**Surge Current Waveform ( Forward tp=1ms )**



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