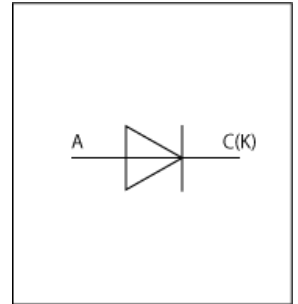


# LTspice Model

## Fast Recovery Diode

### NIEC

### FSU05A40



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_FSU05A40\_LT  
**Pin Assign** 1:C 3:A  
**File List** Model Library MDC\_FSU05A40\_LT01.lib  
 Model Report MDC\_FSU05A40\_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 March 2016 v01
- Product name FSU05A40
- Company name Nihon Inter Electronics Corporation
- Characteristics IfVf[Temp],Trr, Surge Current

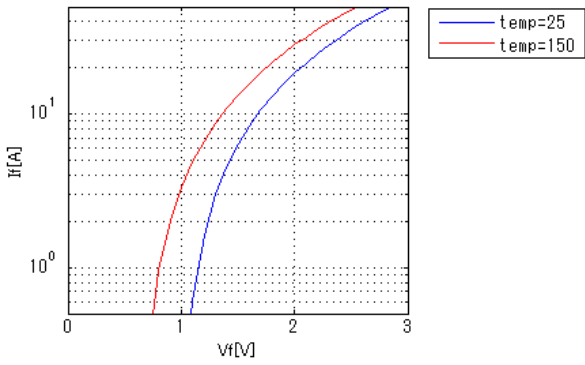
### Simulation Range

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

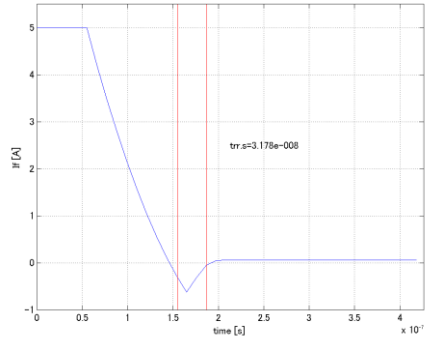
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	30	V
Reverse Voltage	0	to	800	V
Temperature	-40	to	150	deg C

Simulation results are following.  
 Explanatory notes — : simulated

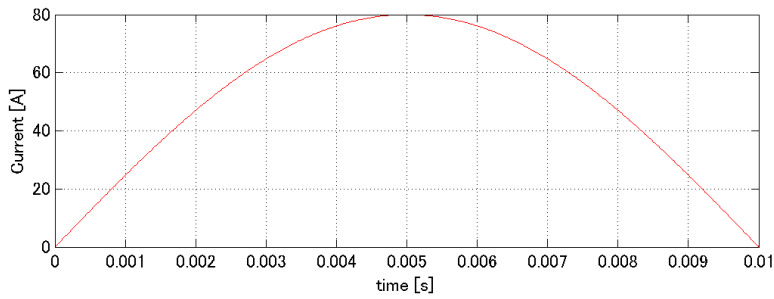
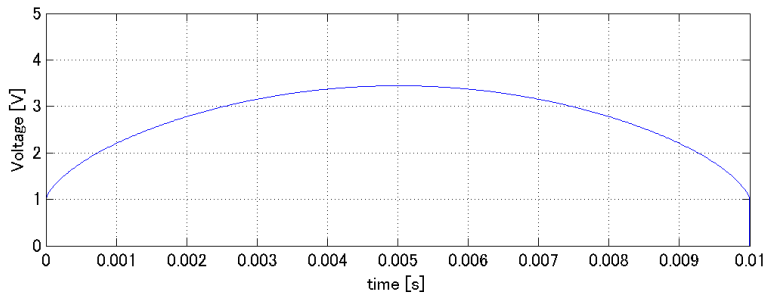
**IfVf[Temp]**



**Trr**



**Surge Current**



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