

# LTspice Model

## Fast Recovery Diode

### SHINDENGEN

### SF8K60M



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SF8K60M\_LT  
**Pin Assign** 1:C 2:A  
**File List** Model Library MDC\_SF8K60M\_LT01.lib  
 Model Report MDC\_SF8K60M\_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 2010.07
- Product name SF8K60M
- Company name Shindengen Electric Manufacturing Co., Ltd.
- Characteristics IfVf[Temp],CjVr,Trrlflr,IrVr[Temp]

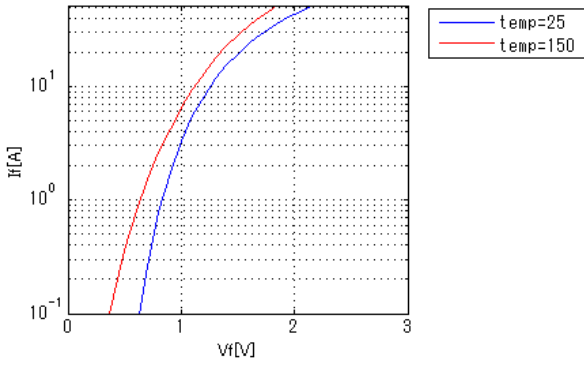
#### Simulation Range

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	600	V
Temperature	-55	to	150	deg C

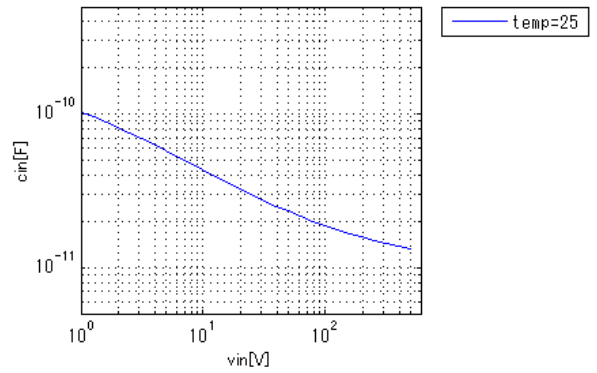
Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

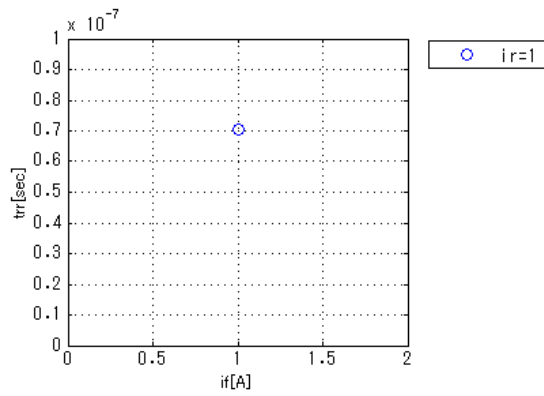


**CjVr**

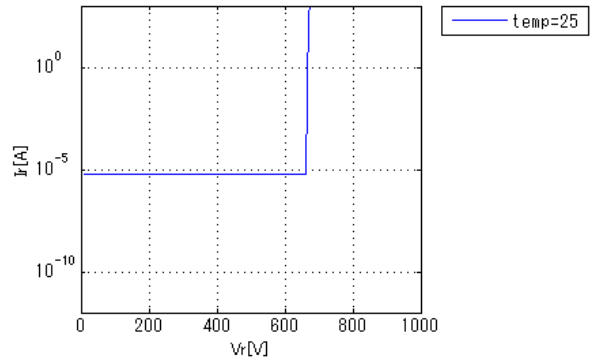
Freq. = 1MHz



**Trrflr**

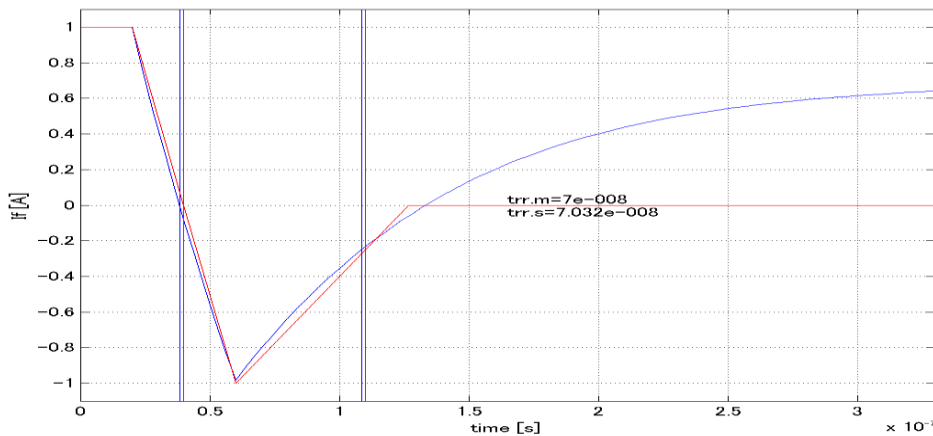


**IrVr[Temp]**



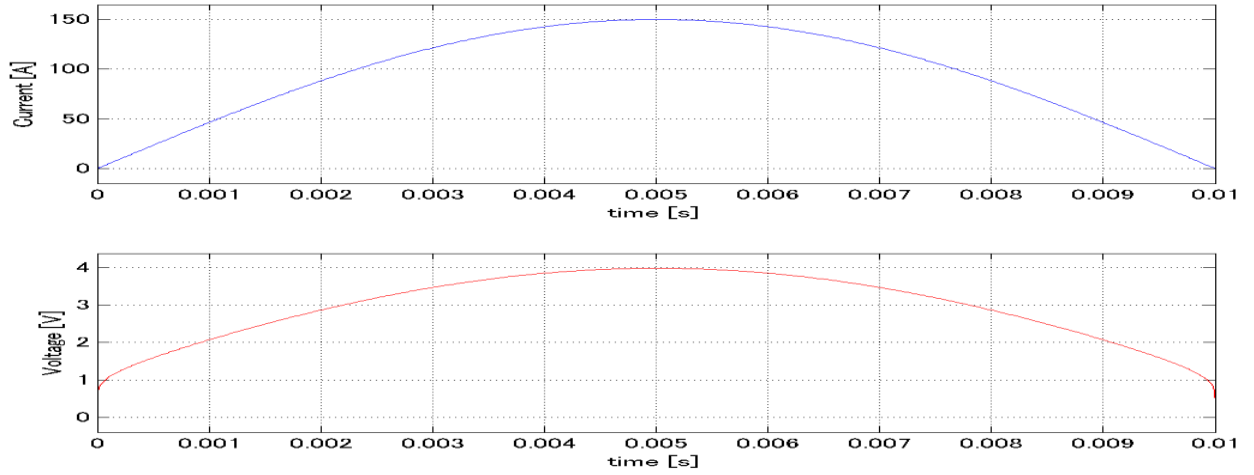
**Trr Waveform**

Red : DataSheet Blue : Simulation



Simulation results are following.  
Explanatory notes — : simulated

**Surge Waveform (Forward)**



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