

# LTspice Model

## ESD Protection Diode

### VISHAY

### SE20AFJHM3



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SE20AFJHM3\_LT  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SE20AFJHM3\_LT01.lib  
 Model Report MDC\_SE20AFJHM3\_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 27-Jul-15
- Product name SE20AFJHM3
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVr[Temp],IrVr[Temp],CjVr,IrVr(Breakdown)

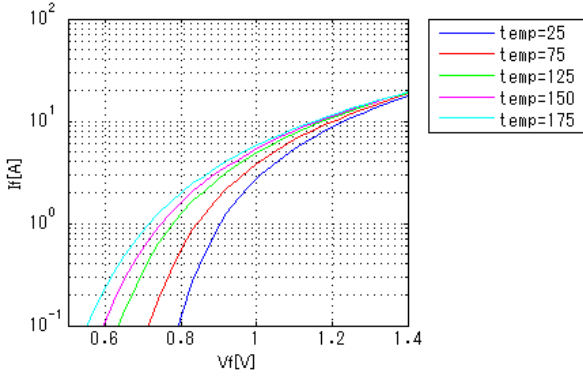
### Simulation Range

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

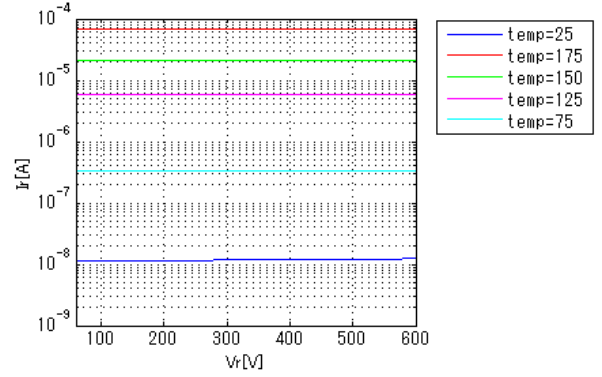
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	14	V
Reverse Voltage	0	to	1,200	V
Temperature	-55	to	175	deg C

Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

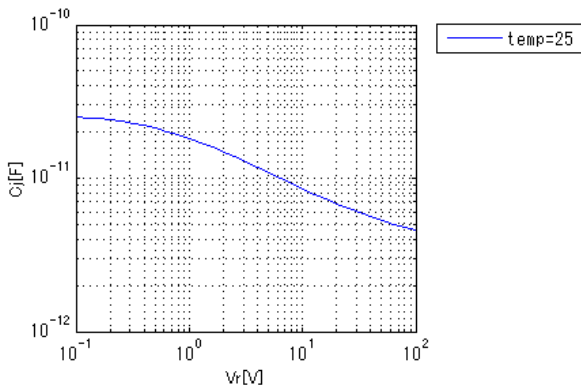


**IrVr[Temp]**

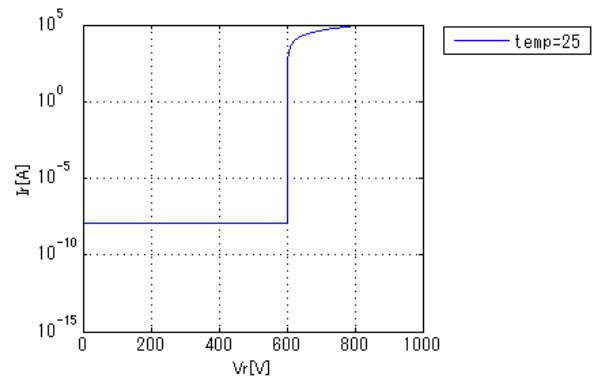


**CjVr**

Freq. = 1MHz



**IrVr(Breakdown)**



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