

# LTspice Model

## ESD Protection Diode

### HITACHI

### V17E



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_V17E\_LT  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_V17E\_LT01.lib  
 Model Report MDC\_V17E\_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 N/A
- Product name V17E
- Company name Hitachi Power Semiconductor Device, Ltd.
- Characteristics IfVf[Temp],IrVr(Breakdown)

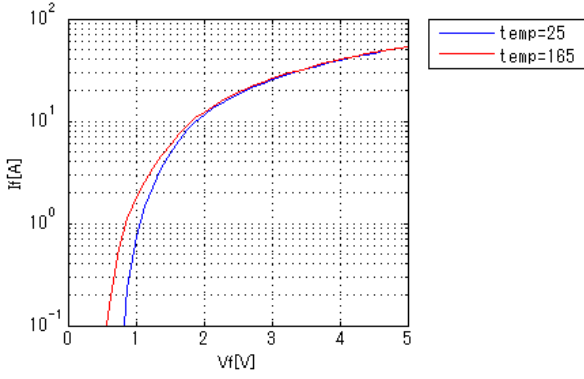
### Simulation Range

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

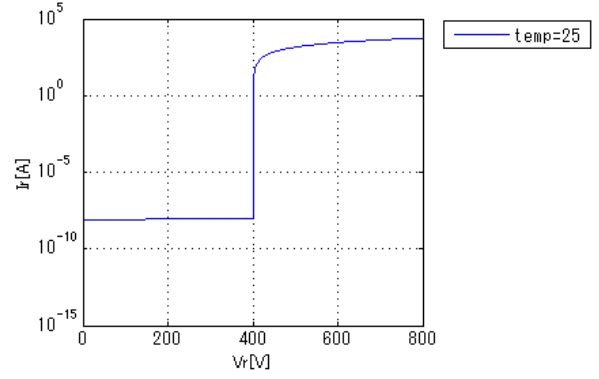
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	50	V
Reverse Voltage	0	to	800	V
Temperature	-40	to	165	deg C

Simulation results are following.  
Explanatory notes — : simulated

IfVf[Temp]



IrVr(Breakdown)



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