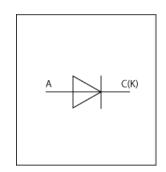


LTspice Model Switching Diode ROHM 1SS355VMTE



Model Information

Model A macro model based on general SPICE diode model

Call Name MDC 1SS355VMTE LT

Pin Assign 1:C 2:A

File List Model Library MDC_1SS355VMTE_LT01.lib

Model Report MDC_1SS355VMTE_LT.pdf (this file)

Verified Simulator Version

Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameCompany name2016/03/17_Rev0031SS355VMTEROHM Co., Ltd.

● Characteristics If Vf[Temp], Ir Vr[Temp], CjVr, TrrlfIr, TrrWaveform, SurgeWavef

orm

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	80	V
Temperature	-55	to	150	deg C



Model Functions Table

Diode

O: Implemented

×: Not Implemented

—: Not applicable

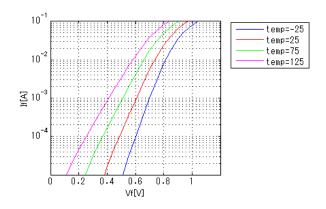
RANK=1

Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Capacitance	1	0
Reverse recovery characteristics	1	0
Zz-Iz	1	-
Rectification characteristics(Bridge)	1	_
Surge -Transient	1	0

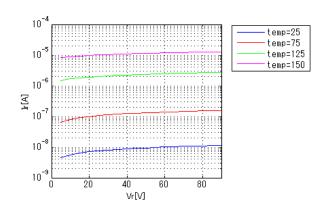


Simulation results are following. Explanatory notes — : simulated

IfVf[Temp]

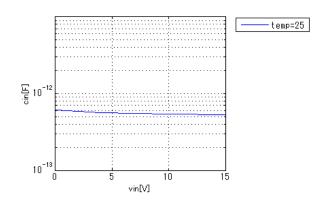


IrVr[Temp]



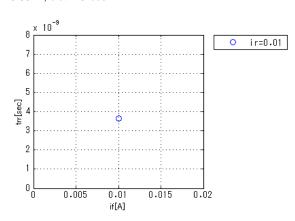
CjVr

Freq = 1000000Hz



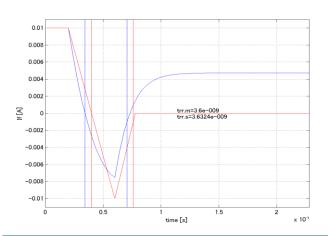
Trrlflr

irr = 0.001A, didt = 5A/us



Trr Waveform (Red: Datasheet Blue: Simulation)

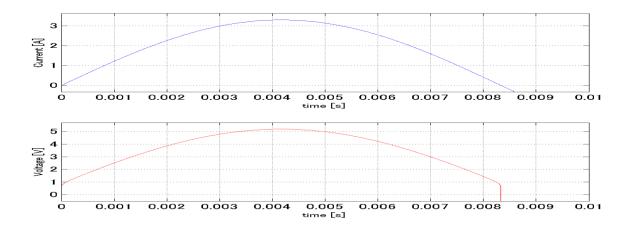
If = 0.01A, ir = 0.01A, irr = 0.001A, didt = 5A/us





Simulation results are following. Explanatory notes — : simulated

Surge Current Waveform (Forward Sine Half 60Hz)





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