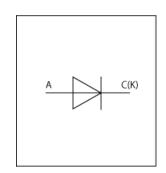


# LTspice Model Rectifier Diode TOSHIBA CRG09A



### **Model Information**

**Model** A macro model based on general SPICE diode model

Call Name MDC\_CRG09A\_LT

Pin Assign 1:C 2:A

File List Model Library MDC\_CRG09A\_LT01.lib

Model Report MDC\_CRG09A\_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/Version 2019-07-09 Rev.2.0

Product name CRG09A

Company name Toshiba Corporation

Characteristics IfVf[Temp],IrVr[Temp],SurgeWaveform

#### 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	400	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	_
Reverse recovery characteristics	1	_
Zz-Iz	1	_
Rectification characteristics(Bridge)	1	_
Surge-Transient	1	0



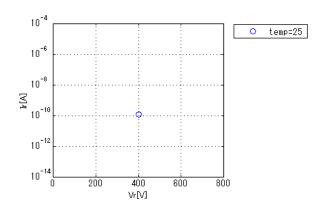
Simulation results are following. Explanatory notes — : simulated

## IfVf[Temp]

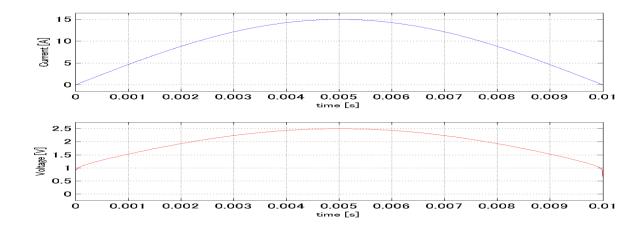
# 10<sup>1</sup> temp=-55 temp=25 temp=75 temp=125

Vf[V]

## IrVr[Temp]



#### Surge Current Waveform (Forward Sine Half 50Hz)





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