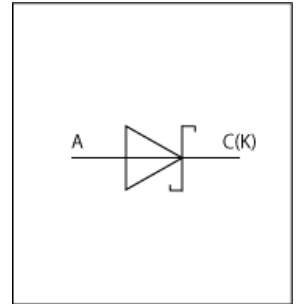


ADS Model

Schottky Diode

ROHM

RB751S-40TE



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_RB751S_40TE_AD
Pin Assign 1:A 2:C
File List Model Library MDC_RB751S_40TE_AD.zip
 Model Report MDC_RB751S-40TE_AD.pdf (this file)

Verified Simulator Version ADS 2022 update 1
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2011.03 - Rev.E
- Product name RB751S-40TE
- Company name ROHM Co., Ltd.
- Characteristics IfVf[Temp],IrrVr[Temp],CjVr, 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	30	V
Temperature	-40	to	125	deg C

Diode

○ : Implemented
× : Not Implemented
— : Not applicable

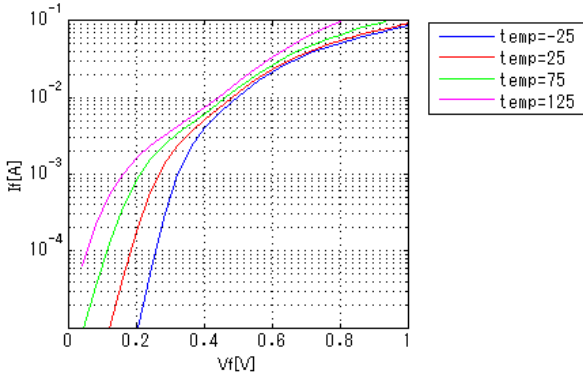
Model Functions Table

RANK=1

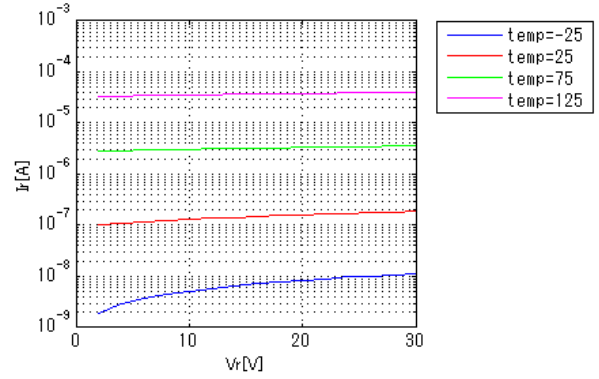
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	—
Rectification characteristics(Bridge)	1	—
Surge current-Transient	1	○

Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

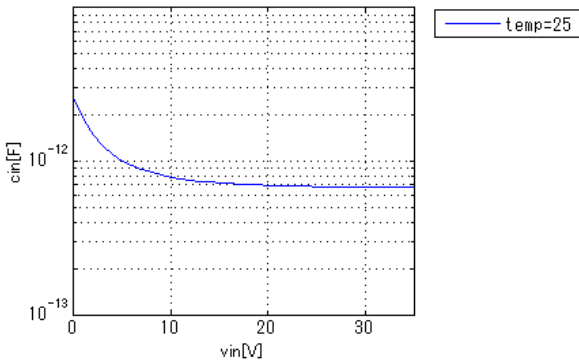


IrVr[Temp]

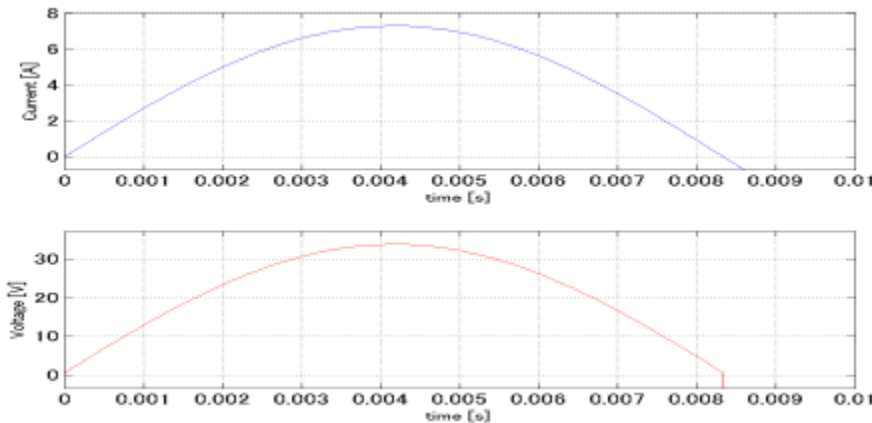


CjVr

Freq = 1000000Hz



Surge Waveform (60Hz forward half sine Blue : Input Current Red : Sim Voltage)



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MoDeCH Inc.

Head Office

Location: 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:<http://www.modech.com/en/>