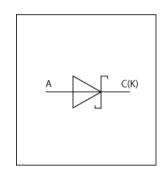


# LTspice Model Schottky Diode ROHM RB751S-40TE



#### **Model Information**

Model A macro model based on general SPICE diode model

Call Name MDC RB751S-40TE LT

Pin Assign 1:A 2:C

File List Model Library MDC\_RB751S-40TE\_LT01.lib

Model Report MDC\_RB751S-40TE\_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 name2011.03 - Rev.ERB751S-40TEROHM Co., Ltd.

● Characteristics If Vf[Temp], Ir Vr[Temp], Cj Vr, Surge Waveform

#### 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



**Model Functions Table** 

## Diode

O: Implemented

×: Not Implemented

—: Not applicable

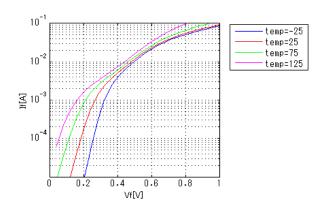
## RANK=1

	TV (IVI) — I	
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Capacitance	1	0
Reverse recovery characteristics	1	_
Rectification characteristics(Bridge)	1	_
Surge current-Transient	1	0

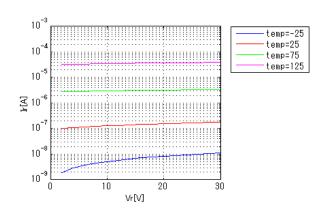


Simulation results are following. Explanatory notes — : simulated

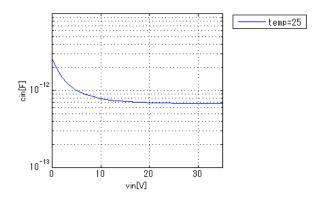
### IfVf[Temp]



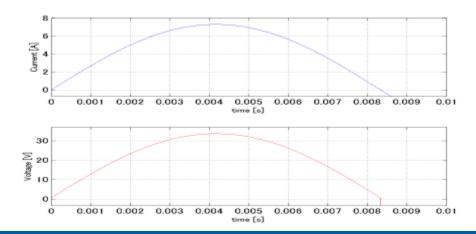
### IrVr[Temp]



#### **CjVr** Freq = 1000000Hz



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





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