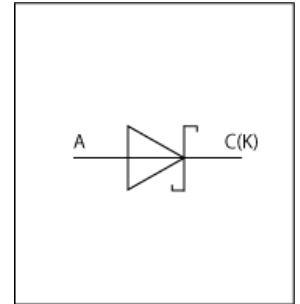


# PSpice Model Schottky Diode ROHM RB751S-40TE



## Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_RB751S-40TE\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_RB751S-40TE\_PS01.lib  
 Model Report MDC\_RB751S-40TE\_PS.pdf (this file)

**Verified Simulator Version** PSpice version 17.2  
**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],IrVr[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

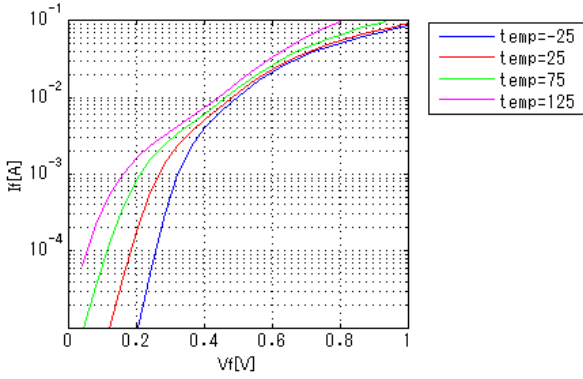
**Model Functions Table**

RANK=1

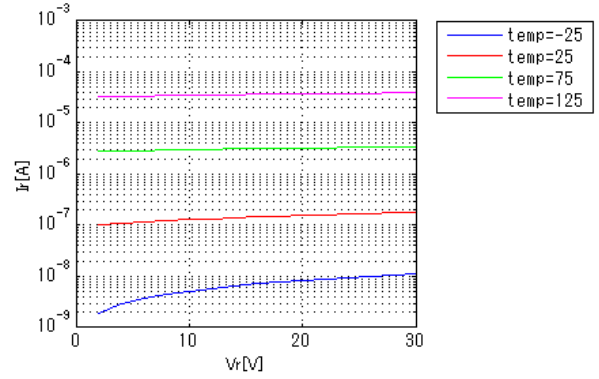
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	—
Rectification characteristics(Bridge)	1	—
Surge current-Transient	1	○

Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

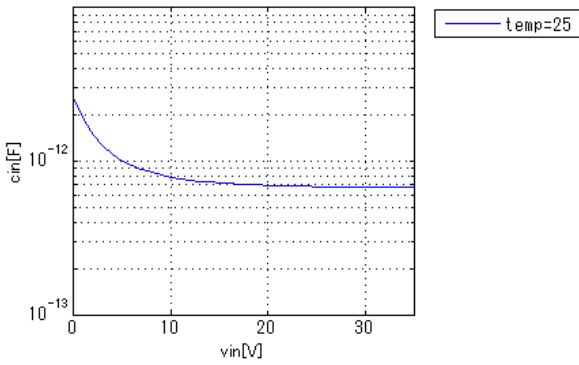


**IrVr[Temp]**

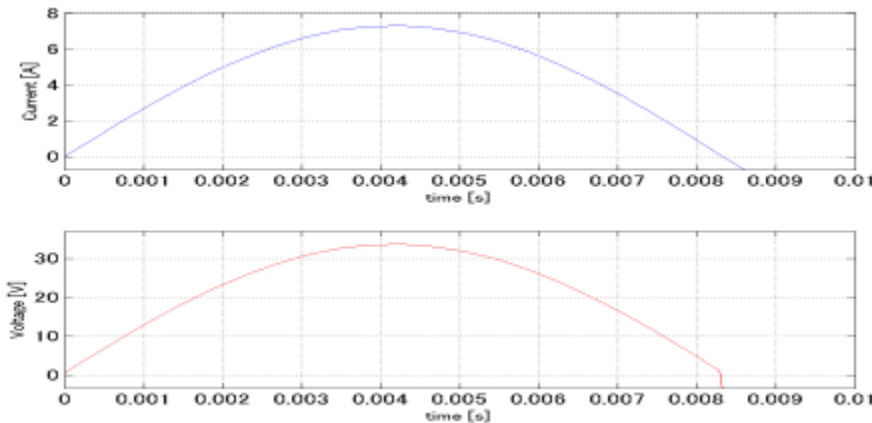


**CjVr**

Freq = 1000000Hz



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



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