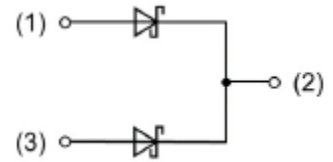


PSpice Model Schottky Diode ROHM RB088BM200



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_RB088BM200_PS
Pin Assign 1:A1 2:C1C2 3:A2
File List Model Library MDC_RB088BM200_PS01.lib
 Model Report MDC_RB088BM200_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 2019/08/09_Rev001
- Product name RB088BM200
- Company name ROHM Co., Ltd.
- Characteristics IfVf[Temp],IrVr[Temp],CjVr,Trrlflr,TrrWaveform, 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.	
Forward Voltage	0	to	200	V
Temperature	-55	to	150	deg C

Diode

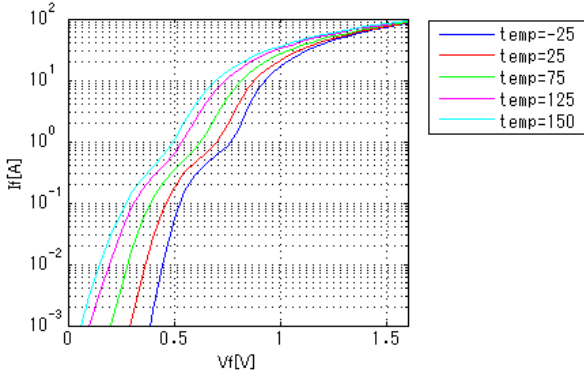
○ : Implemented
 × : Not Implemented
 — : Not applicable

Model Functions Table
RANK=1

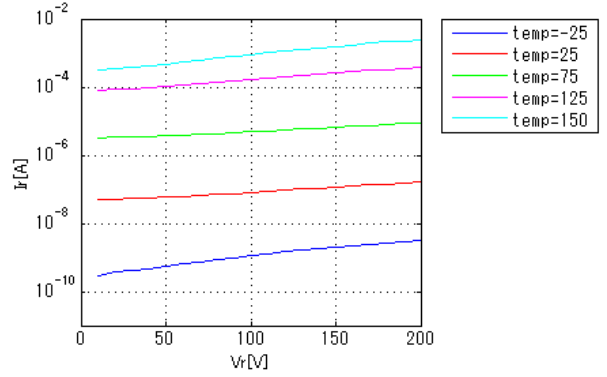
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	○
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge-Transient	1	○
tlp	1	—

Simulation results are following.
 Explanatory notes — : simulated

IfVr[Temp]

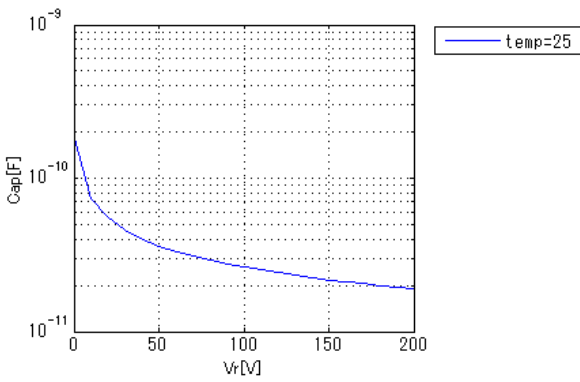


IrVr[Temp]



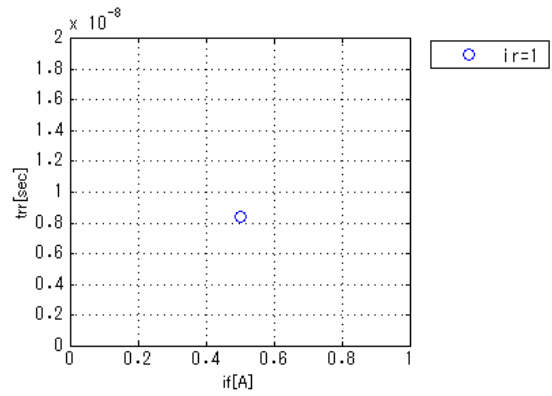
CjVr

Freq = 1000000Hz



TrrIfIr

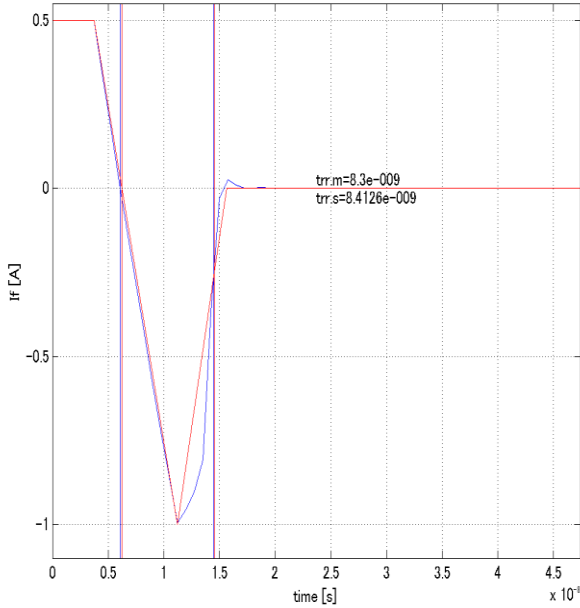
irr = 0.25A, didt = 200A/us



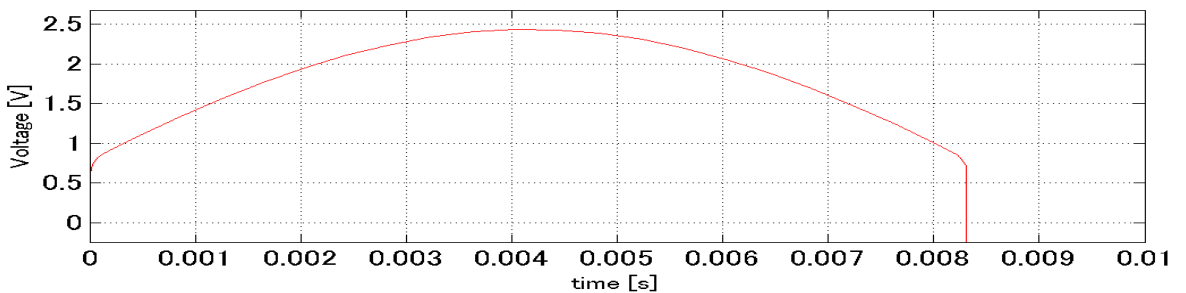
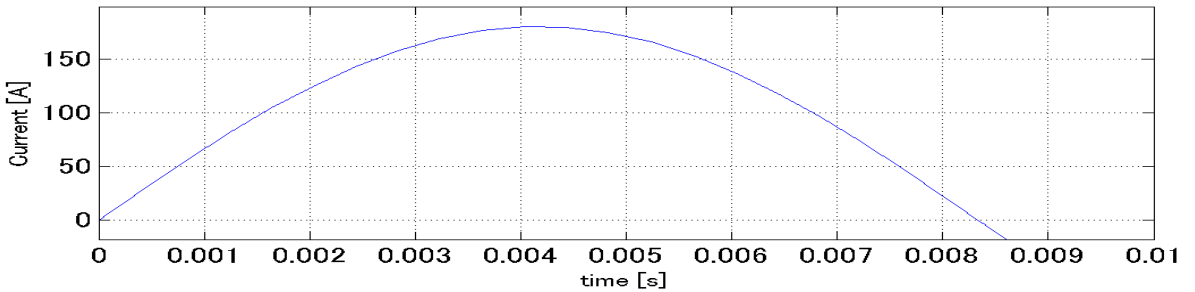
Simulation results are following.
 Explanatory notes — : simulated

Trr Waveform (Red : Datasheet Blue : Simulation)

didt = 200A/us, if = 0.5A, ir = 1A, irr = 0.25A, Temp = 25degC



Surge Current Waveform (Forward Sine Half 60Hz)



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