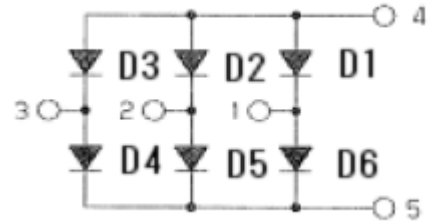


PSpice Model Rectifier Diode KYOCERA PT150N16



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_PT150N16_PS
Pin Assign 1:C1A6 2:C2A5 3:C3A4 4:A1A2A3 5:C4C5C6
File List Model Library MDC_PT150N16_PS01.lib
 Model Report MDC_PT150N16_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 Unknown
- Product name PT150N16
- Company name KYOCERA Corporation
- Characteristics IfVf[Temp],IrrVr[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	1,600	V
Temperature	-40	to	125	deg C

Diode

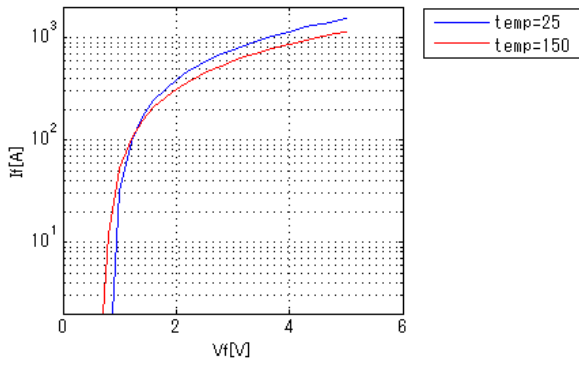
○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table
RANK=1

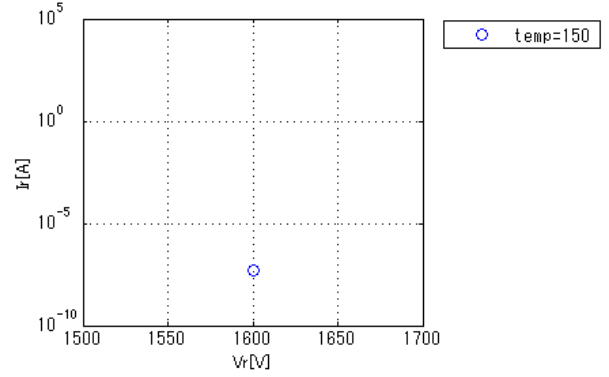
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	—
Reverse recovery characteristics	1	—
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge-Transient	1	○
tlp	1	—

Simulation results are following.
 Explanatory notes — : simulated

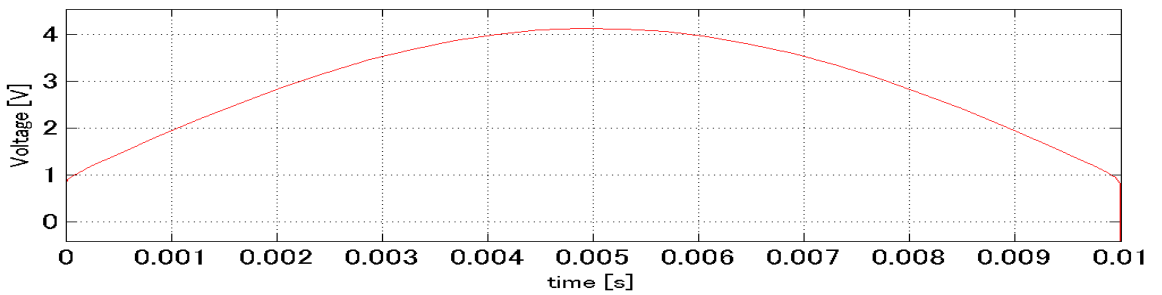
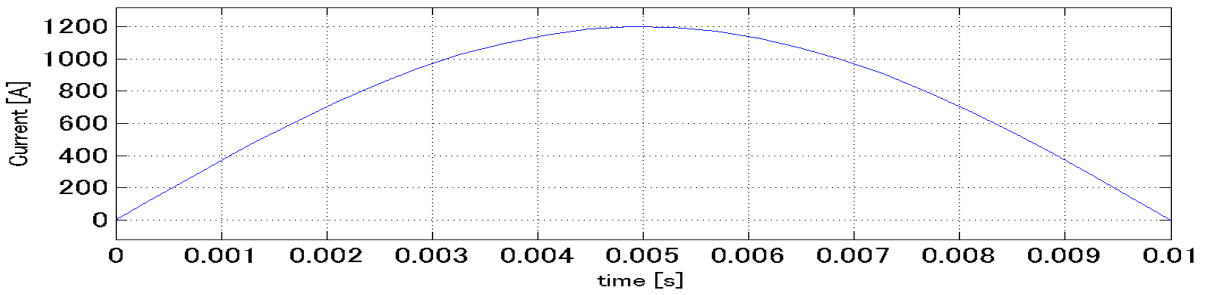
IfVf[Temp]



IrVr[Temp]



Surge Current Waveform (Forward Sine Half 50Hz)



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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/>