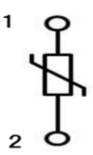


## PSpice Model Surge Absorber OKAYA RHCA-501P31U



### **Model Information**

Model An original macro model Call Name MDC\_RHCA-501P31U\_PS

**Pin Assign** 1:1 2:2

File List Model Library MDC\_RHCA-501P31U\_PS01.lib

Model Report MDC\_RHCA-501P31U\_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 17.2

#### References

The information which was used for modeling is as follow:

Company name

[Data Sheet]

Date/Version Unknown

● Product name RHCA-501P31U

● Characteristics IfVf[Temp],IrVr[Temp],CjVr,DcFiringPotential,SurgeCurrent,S

OKAYA ELECTRIC INDUSTRIES CO.,LTD.

urgeVoltage

#### 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.	
DC firing potential	500	to	500	V
Temperature	-20	to	80	deg C



# Surge Absorber

O: Implemented

× : Not Implemented

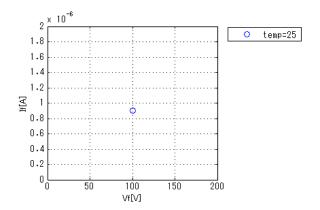
—: Not applicable

Model Functions Table	RANK=1	. постаррпсавле
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Capacitance	1	0
DC firing potential	1	0
Surge voltage-Transient	1	0

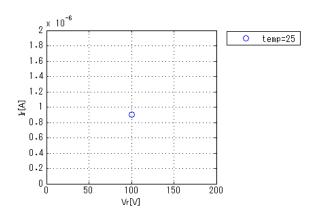


Simulation results are following. Explanatory notes — : simulated

## IfVf[Temp]

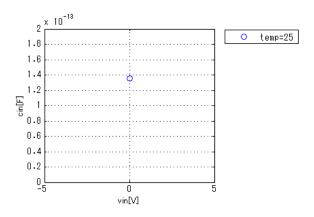


## IrVr[Temp]



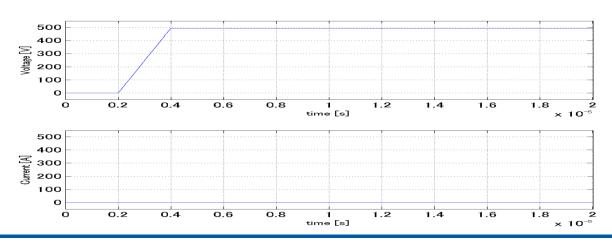
### CjVr

Freq = 1000000Hz



#### DC Firing Potential (not reached at 5000\*0.99V)

Road = 2 ohm



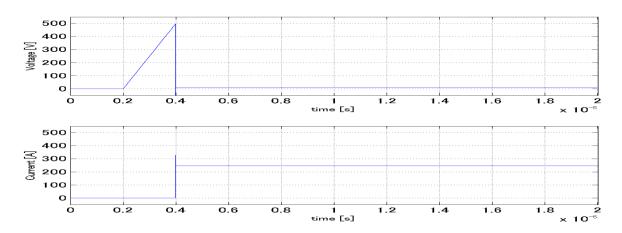


Simulation results are following.

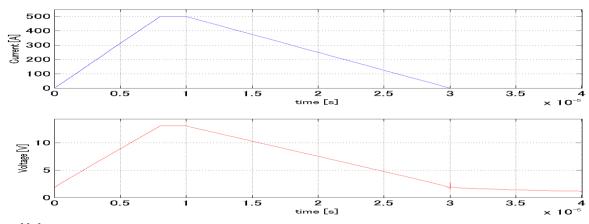
Explanatory notes — : simulated

#### DC Firing Potential (reached at 500V)

Road = 2 ohm

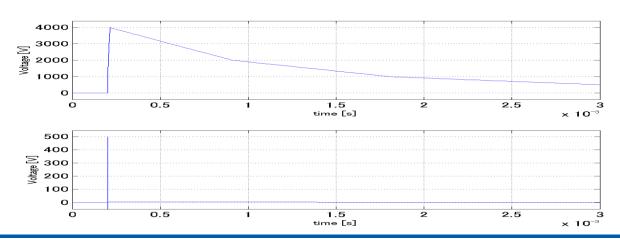


#### **Surge Voltage**



#### **Surge Voltage**

UP R=1Gohm DOWN DUT





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