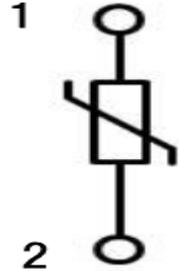


PSpice Model

Surge Absorber

Mitsubishi Materials

FA55-362-G04F-M



Model Information

Model A macro model
Call Name MDC_FA55-362-G04F-M_PS
Pin Assign 1:1 2:2
File List Model Library MDC_FA55-362-G04F-M_PS01.lib
 Model Report MDC_FA55-362-G04F-M_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 FA55-362-G04F-M
- Company name Mitsubishi Materials Corporation
- Characteristics VfIf[Temp],CapacitanceVr,4990VCheck,5000VOverCheck,2000VPeakCheck,SurgeCurrentWaveform

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. | |
| ImpulseSpeakoverVoltage(max) | 5000(1.2/50us) | to | 5000(1.2/50us) | V |
| Temperature | -55 | to | 85 | deg C |

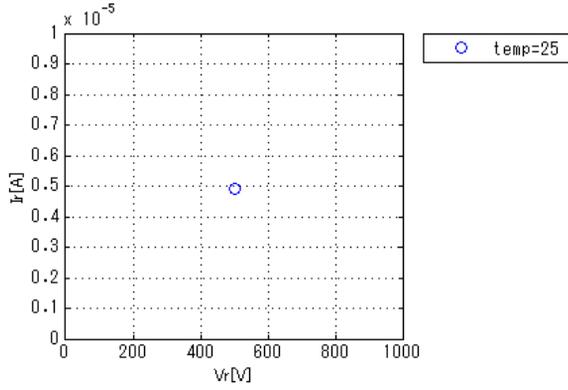
○ : Implemented
 × : Not Implemented
 — : Not applicable

Model Functions Table
RANK=1

| Functions | RANK | Implemented |
|-------------|------|-------------|
| IF-VF(Temp) | 1 | ○ |
| IR-VR(Temp) | 1 | ○ |
| Capacitance | 1 | ○ |

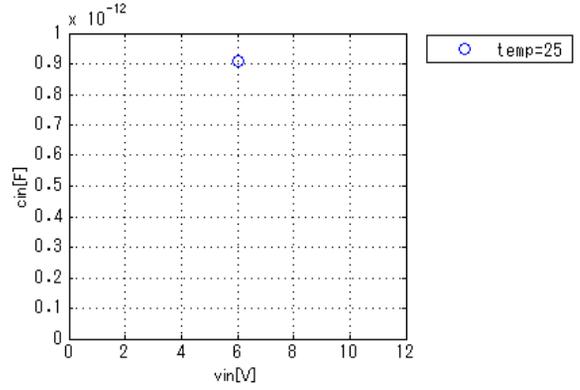
Simulation results are following.
 Explanatory notes — : simulated

Vrlr[Temp]

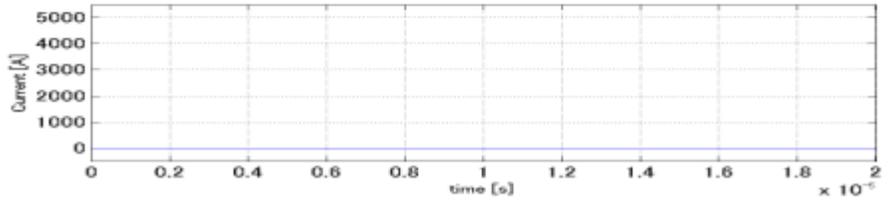
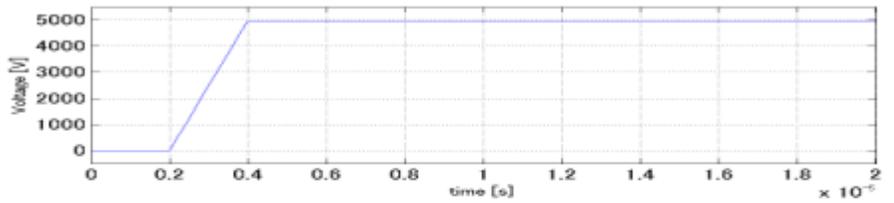
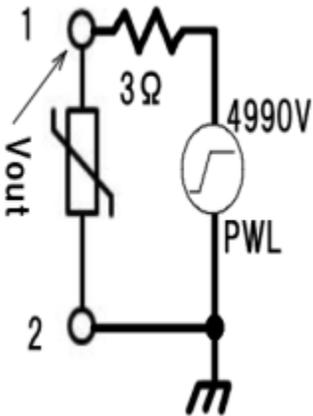


CjVr

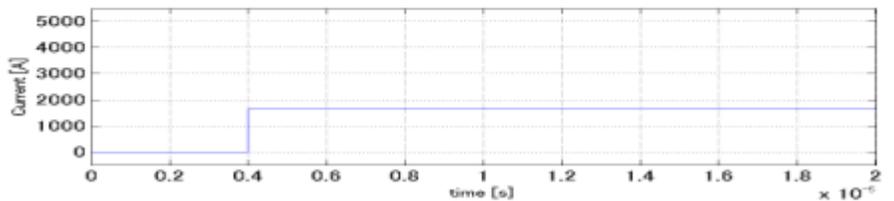
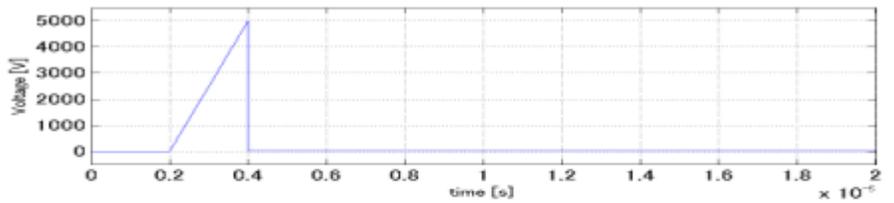
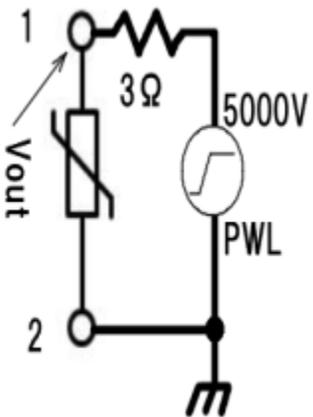
Freq. = 0.001MHz



4990V Check

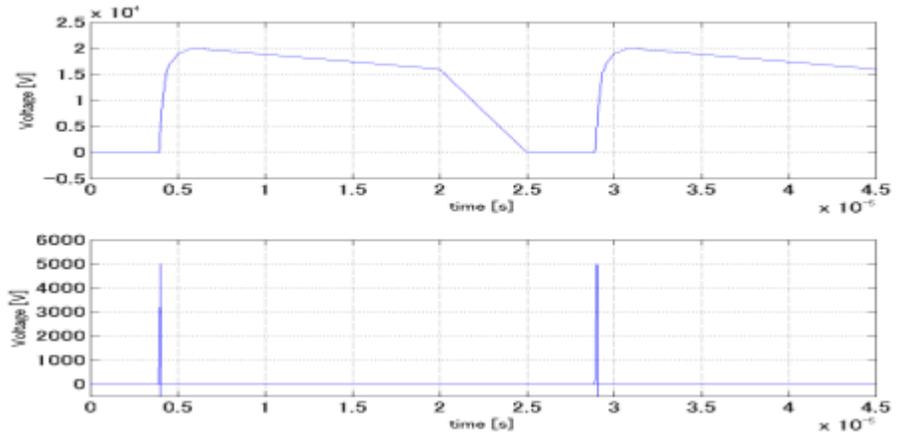
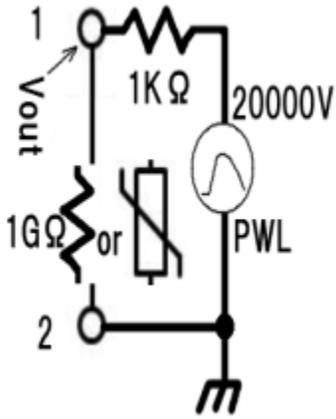


5000V Over Check

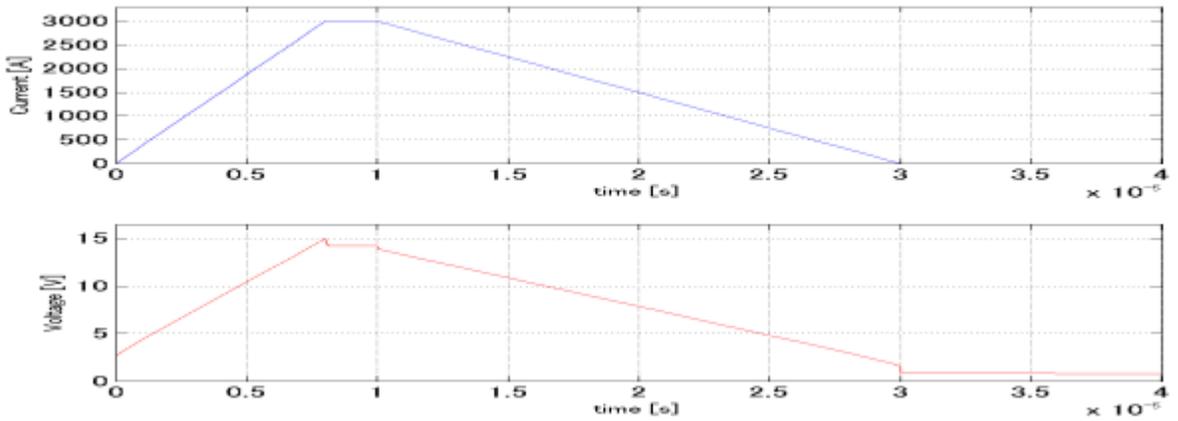


Simulation results are following.
 Explanatory notes — : simulated

20000V Peak Check (1.2/50us)



Surge Current Waveform



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