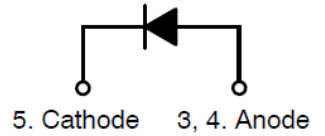
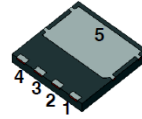
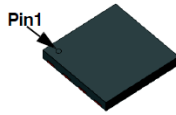


# PSpice Model Schottky Diode (SiC) ON FF5M0665A



Schottky Diode

## Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_FF5M0665A\_PS  
**Pin Assign** 3:A 4:A 5:C  
**File List** Model Library MDC\_FF5M0665A\_PS01.lib  
 Model Report MDC\_FF5M0665A\_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 December, 2019 - Rev. 4
- Product name FF5M0665A
- Company name ON Semiconductor.
- Characteristics  $I_{fV}[Temp]$ ,  $I_{rVr}[Temp]$ ,  $C_{jVr}$ , 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.	
Reverse voltage (DC)	0	to	650	V
Temperature	-55	to	150	deg C

## Diode

○ : Implemented  
× : Not Implemented  
— : Not applicable

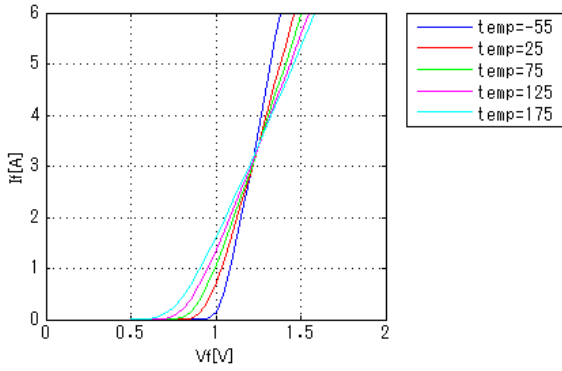
Model Functions Table

RANK=1

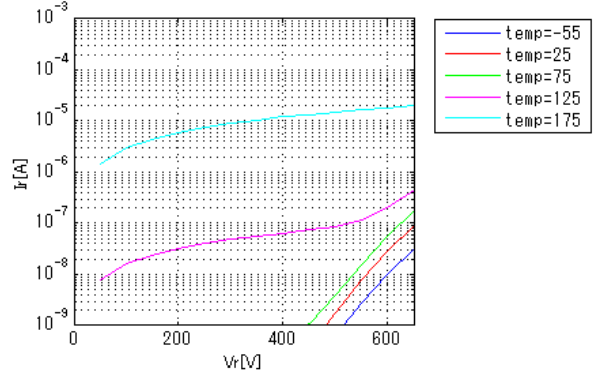
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	—
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge current-Transient	1	○

Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

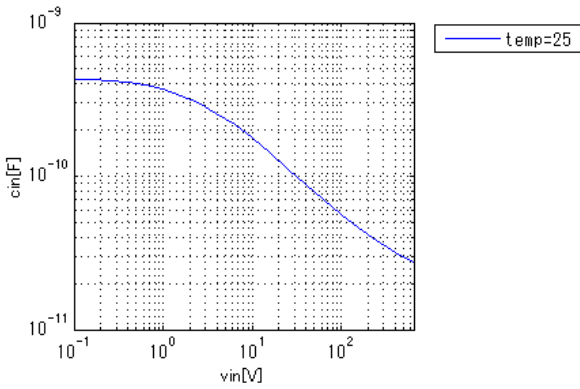


**IrVr[Temp]**

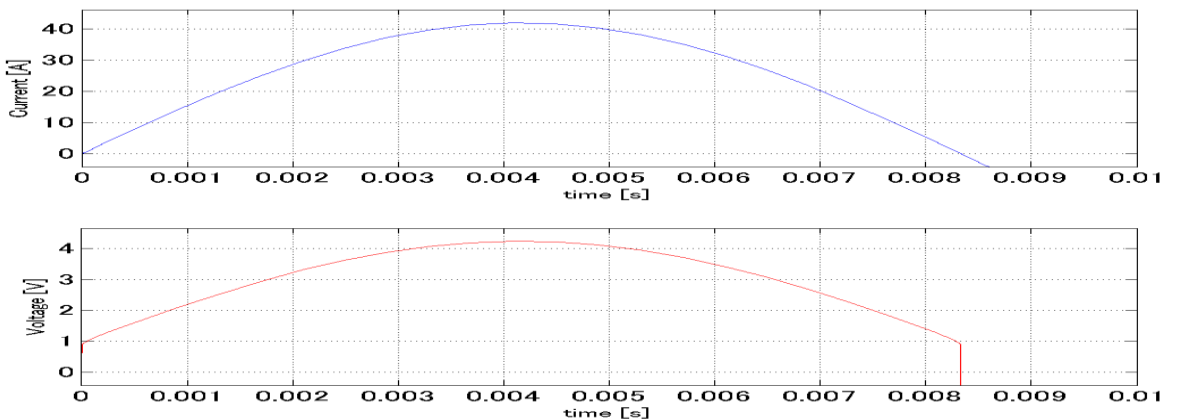


**CjVr**

Freq = 1000000Hz



**Surge Current Waveform ( Forward Sine Half 60Hz )**



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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](mailto:model-on-support@modech.co.jp)

URL:<http://www.modech.com/en/>