

## PSpice Model Schottky Barrier Diode Nexperia PMEG4010CEJ

#### **Model Information**

Model A macro model based on general SPICE diode model

Call Name MDC PMEG4010CEJ PS

Pin Assign 1:C 2:A

File List Model Library MDC PMEG4010CEJ PS.lib

Model Report MDC PMEG4010CEJ 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/VersionProduct nameCompany name2007-03-22/Rev. 02PMEG4010CEJNexperia

[Characteristics listed]

● Characteristics IfVf[Temp], IrVr[Temp], CjVr

#### 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	40	V
Temperature	-40	to	150	deg C





**Model Functions Table** 

## Diode

O: Implemented

× : Not Implemented

─ : Not applicable

## RANK=1

Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Capacitance	1	0
Reverse recovery characteristics	1	-
Rectification characteristics(Bridge)	1	-
Surge voltage-Transient	2	_



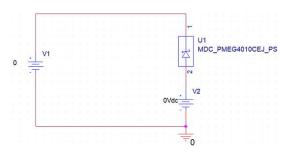
#### IfVf[Temp], IrVr[Temp] Testbench

#### **Referred to Data Sheet**

#### IfVf[Temp]

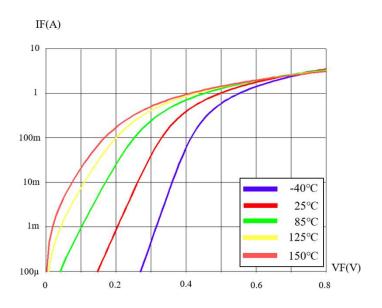
# 0 U1 MDC\_PMEG4010CEJ\_PS 0 Vdc V2

#### IrVr[Temp]

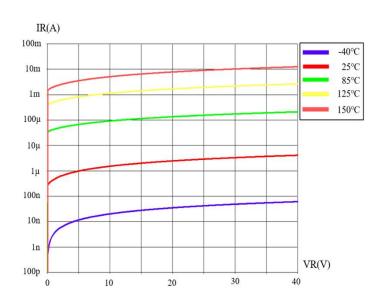


# Simulation results are following. Explanatory notes — : simulated

#### IfVf[Temp]



#### IrVr[Temp]

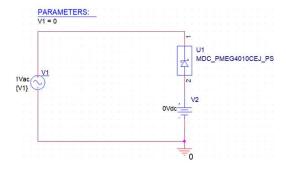




#### CjVr Testbench

## **Referred to Data Sheet**

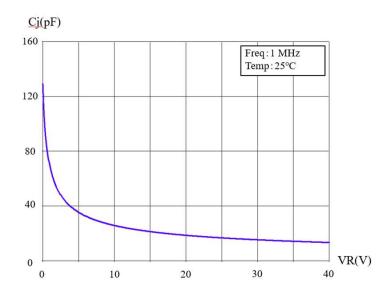
### CjVr



Simulation results are following.

Explanatory notes — : simulated

#### CjVr





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