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*February 10, 2026

*DD Vishay Semiconductor Italiana SPA

*File Name: VS-4C40EP12L-M3.txt

*This document is intended as a SPICE modeling guideline and does not

*constitute a commercial product datasheet. Designers should refer to the

*appropriate datasheet of the same number for guaranteed specification

*limits.

* Model fit device @25°C-125°C

* DEVICE= VS-4C40EP12L-M3, SiC Diode

.MODEL VS-4C40EP12L-M3 D

+ IS=1.007160E-11

+ N=1.321695E+00

+ RS=1.023878E-02

+ IKF=1.999834E+02

+ EG=3.260000E+00

+ CJO=3.147328E-09

+ M=4.872033E-01

+ VJ=1.200000E+00

+ FC=5.000000E-01

+ ISR=1.000000E-20

+ NR=4.995000E+00

+ BV=1.493500E+03

+ IBV=5.000000E-03

+ TT=1.000000E-08

+ XTI=-7.758912E+01

+ TIKF=6.653014E-10

+ TRS1=-1.021755E-04

+ TRS2=6.535251E-05

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth- VS-4C40EP12L-M3 Tj Tc

R THERM1	Tj	1	3.04498E-02
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R THERM2	1	2	8.44102E-02
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R THERM3	2	3	6.19384E-02
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R THERM4	3	Tc	1.08673E-01
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C THERM1	Tj	1	3.75890E-04
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C THERM2	1	2	2.72504E-02
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C THERM3	2	3	3.23667E-02
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C THERM4	3	Tc	1.77775E-01
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.ENDS zth- VS-4C40EP12L-M3



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