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*DD Vishay Semiconductor Italiana SPA

*File Name: VS-4C15EP12L-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-4C15EP12L-M3, SiC Diode

.MODEL VS-4C15EP12L-M3 D

+ IS=1.986050E-10

+ N=1.512738E+00

+ RS=2.522159E-02

+ IKF=2.000000E+01

+ EG=3.260000E+00

+ CJO=1.178186E-09

+ M=4.824317E-01

+ VJ=1.200000E+00

+ FC=5.000000E-01

+ ISR=1.000000E-10

+ NR=4.995000E+00

+ BV=1.508320E+03

+ IBV=5.000000E-03

+ TT=1.000000E-08

+ XTI=-6.750403E+01

+ TIKF=-6.293052E-08

+ TRS1=1.761037E-04

+ TRS2=9.920727E-05

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth- VS-4C15EP12L-M3 Tj Tc

R THERM1	Tj	1	1.92974E-01
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R THERM2	1	2	1.66683E-01
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R THERM3	2	Tc	2.58378E-01
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C THERM1	Tj	1	3.02543E-03
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C THERM2	1	2	1.69415E-02
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C THERM3	2	Tc	4.09685E-02
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.ENDS zth- VS-4C15EP12L-M3



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