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*DD Vishay Semiconductor Italiana SPA

*File Name: VS-4C05ET12T-S2L.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-4C05ET12T-S2L, SiC Diode

.MODEL VS-4C05ET12T-S2L D

+ IS=1.206888E-10

+ N=1.569249E+00

+ RS=7.353521E-02

+ IKF=1.999892E+01

+ EG=3.260000E+00

+ CJO=3.998457E-10

+ M=4.753450E-01

+ VJ=1.200000E+00

+ FC=5.000000E-01

+ ISR=1.000000E-20

+ NR=4.995000E+00

+ BV=1.508040E+03

+ IBV=6.630000E-04

+ TT=1.000000E-08

+ XTI=-7.399545E+01

+ TIKF=-7.724841E-06

+ TRS1=7.894035E-03

+ TRS2=6.417771E-06

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth- VS-4C05ET12T-S2L Tj Tc

R THERM1	Tj	1	7.52213E-01
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R THERM2	1	2	5.59489E-01
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R THERM3	2	Tc	4.39104E-01
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C THERM1	Tj	1	1.89232E-03
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C THERM2	1	2	1.83152E-02
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C THERM3	2	Tc	2.41399E-01
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.ENDS zth- VS-4C05ET12T-S2L



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