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*DD Vishay Semiconductor Italiana SPA

*File Name: 4C16ET07T-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= 4C16ET07T-S2L, SiC Diode

.MODEL 4C16ET07T-S2L D

+ IS=1.525187E-10

+ N=1.538690E+00

+ RS=1.857996E-02

+ IKF=2.000000E+01

+ EG=3.260000E+00

+ CJO=9.575900E-10

+ M=4.646938E-01

+ VJ=1.200000E+00

+ FC=5.000000E-01

+ ISR=1.000000E-20

+ NR=4.995000E+00

+ BV=8.512500E+02

+ IBV=5.230000E-01

+ TT=1.000000E-08

+ XTI=-7.393336E+01

+ TIKF=-5.246224E-08

+ TRS1=-2.653528E-03

+ TRS2=7.000000E-05

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth- 4C16ET07T-S2L Tj Tc

R THERM1	Tj	1	6.30706E-01
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R THERM2	1	2	4.99016E-01
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R THERM3	2	Tc	2.90778E-01
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C THERM1	Tj	1	2.51925E-03
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C THERM2	1	2	3.78033E-02
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C THERM3	2	Tc	5.55619E-01
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.ENDS zth- 4C16ET07T-S2L



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