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*DD Vishay Semiconductor Italiana SPA

*File Name: 4C12ET07L-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= 4C12ET07L-S2L, SiC Diode

.MODEL 4C12ET07L-S2L D

+ IS=1.617235E-10

+ N=1.538640E+00

+ RS=2.465038E-02

+ IKF=1.999984E+01

+ EG=3.260000E+00

+ CJO=7.176426E-10

+ M=4.699551E-01

+ VJ=1.200000E+00

+ FC=5.000000E-01

+ ISR=1.000000E-20

+ NR=4.995000E+00

+ BV=8.517070E+02

+ IBV=5.230000E-01

+ TT=1.000000E-08

+ XTI=-7.403369E+01

+ TIKF=-3.296782E-08

+ TRS1=-9.906674E-04

+ TRS2=5.320906E-05

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth- 4C12ET07L-S2L Tj Tc

R THERM1	Tj	1	7.46159E-01
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R THERM2	1	2	5.11903E-01
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R THERM3	2	Tc	2.98437E-01
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C THERM1	Tj	1	2.36885E-03
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C THERM2	1	2	2.87234E-02
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C THERM3	2	Tc	3.88542E-01
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.ENDS zth- 4C12ET07L-S2L



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