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*DD Vishay Semiconductor Italiana SPA

*File Name: E7SX0312.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= E7SX0312, D

.MODEL E7SX0312 D

+ IS=1.478378E-04

+ N=5.146325E+00

+ RS=3.004621E-02

+ IKF=1.590241E-01

+ EG=1.110000E+00

+ CJO=4.967930E-11

+ M=3.844944E-01

+ VJ=1.837087E-01

+ FC=5.000000E-01

+ ISR=1.000000E-20

+ NR=4.995000E+00

+ BV=1.350500E+03

+ IBV=1.000000E+01

+ TT=1.000000E-08

+ XTI=2.073900E+01

+ TIKF=4.260000E-02

+ TRS1=-4.400000E-03

+ TRS2=5.800000E-06

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth- E7SX0312 Tj Tc

R THERM1	Tj	1	2.54077E-01
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R THERM2	1	2	1.15917E+00
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R THERM3	2	3	3.45538E+00
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R THERM4	3	4	3.45641E+00
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R THERM5	4	Tc	3.66227E+00
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C THERM1	Tj	1	9.99322E-04
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C THERM2	1	2	2.78545E-03
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C THERM3	2	3	1.61907E-02
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C THERM4	3	4	7.07905E-02
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C THERM5	4	Tc	2.30254E-01
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.ENDS zth- E7SX0312



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