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*Jan 22, 2024

*DD Vishay Semiconductors Italiana SPA

*File Name: E7FX0112.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 at 25°C 125°C

*DEVICE=E7FX0112,D

.MODEL VS-E7FX0112 D

+ IS=76.992E-6

+ N=4.2190

+ RS=.1115

+ IKF=2.7888E-3

+ CJO=9.6575E-12

+ M=.16723

+ VJ=.3905

+ ISR=10.010E-21

+ NR=4.9950

+ BV=1.3505E3

+ IBV=10

+ TT=42.5E-9

+ XTI=28

+ Tikf=0.046

+ Trs1=0.0018

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth-E7FX0112 Tj Ta

R THERM1	Tj	1	1.754e+00
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R THERM2	1	2	1.542e-01
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R THERM3	2	3	2.065e+01
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R THERM4	3	Ta	4.315e+00
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C THERM1	Tj	1	1.684e-04
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C THERM2	1	2	1.288e-05
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C THERM3	2	3	5.937e-03
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C THERM4	3	Ta	3.345e-03
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.ENDS zth-E7FX0112



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