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*May 22, 2023

*DD Vishay Semiconductor Italiana SPA

*File Name: VS-E5TX1512.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=VS-E5TX1512,D

.MODEL VS-E5TX1512 D

+ IS=700.00E-6

+ N=6.1854

+ RS=13.659E-3

+ IKF=.52346

+ CJO=112.11E-12

+ M=.40001

+ VJ=.3905

+ ISR=10.010E-21

+ NR=4.9950

+ BV=1.5221E3

+ IBV=.25868

*use follow TT for spide3f5 compliant simulator or other Tj simulation

* + TT=29.567E-9

+ XTI=32

+ Tikf=0.044

+ Trs1=0.0005

*use follow TT an Vp with LTspice at 25°C

+ TT=59.567E-9

+ Vp=0.39

*Maj 22, 2023

*DD Vishay semiconduttori italiana SPA

*File Name: Zth-VS-E5TX1512S2.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.

*Thermal model

.SUBCKT ZTH-E5TX1512S2 Tj Ta

R THERM1	Tj	1	1.569e-02
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R THERM2	1	2	6.909e-02
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R THERM3	2	3	6.979e-01
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R THERM4	3	Ta	5.976e-01
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C THERM1	Tj	1	1.099e-04
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C THERM2	1	2	1.462e-03
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C THERM3	2	3	5.037e-03
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C THERM4	3	Ta	4.832e-02
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.ENDS ZTH-E5TX1512S2



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