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*Oct 18, 2022

*DD Vishay semiconduttori italiana SPA

*File Name: VS-E5PH6012L.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-E5PH6012L,D

.MODEL E5PH6012 D

+ IS=250.00E-6

+ N=3.8288

+ RS=4.0787E-3

+ IKF=1.1510

+ CJO=396.36E-12

+ M=.41312

+ VJ=.3905

+ ISR=10.010E-21

+ NR=4.9950

+ BV=1.3609E3

+ IBV=25.865E-3

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

* + TT=38.743E-9

+ XTI=9

+ Tikf=0.065

+ Trs1=0.0006

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

+ TT=57.543E-9

+ Vp=0.445

.SUBCKT ZTH-E5PH6012 H Tj Ta

R THERM1	Tj	1	3.537e-03
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R THERM2	1	2	1.550e-02
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R THERM3	2	3	2.296e-01
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R THERM4	3	Ta	6.104e-02
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C THERM1	Tj	1	4.964e-04
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C THERM2	1	2	7.257e-03
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C THERM3	2	3	3.445e-02
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C THERM4	3	Ta	4.177e-02
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.ENDS ZTH-E5PH6012 H



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