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* Vishay Semiconductors *

*Oct 08, 2021

*DD Vishay Semiconductor Italiana SPA

Part Number: VS-E(A)5PH6006L serie

*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.

* VS- VS-E(A)5PH6006L -25 D model ---> 25°C

.MODEL VS-E(A)5PH6006L D

+ IS=41.415E-6

+ N=2.6336

+ RS=1.8851E-3

+ IKF=1.1052

+ CJO=711.85E-12

+ M=.41584

+ VJ=.3905

+ ISR=10.010E-21

+ NR=4.9950

+ BV=713.18

+ IBV=.25865

+ TT=45.951E-9

+ XTI=19.35

* VS- VS-E(A)5PH6006L-N3-125 D model ---> 125°C

.MODEL VS-E(A)5PH6006L D

+ IS=956.41E-6

+ N=2.8383

+ RS=2.6943E-3

+ IKF=2.8985

+ CJO=711.85E-12

+ M=.41584

+ VJ=.3905

+ ISR=10.010E-21

+ NR=4.9950

+ BV=713.18

+ IBV=.25865

+ TT=120.13E-9

+ XTI=18

Thermal Model Subcircuit - TYPICAL

.SUBCKT Zth- VS-E(A)5PH6006L Tj Ta

R THERM1	Tj	1	5.311e-03
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R THERM2	1	2	2.108e-02
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R THERM3	2	3	1.261e-01
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R THERM4	3	Ta	2.691e-01
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C THERM1	Tj	1	3.218e-04
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C THERM2	1	2	3.941e-03
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C THERM3	2	3	1.570e-02
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C THERM4	3	Ta	8.744e-02
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.ENDS Zth- VS-E(A)5PH6006L

Thermal Model Subcircuit - MAX

.SUBCKT Zth- VS-E(A)5PH6006L L Tj Ta

R THERM1	Tj	1	7.861e-03
R THERM2	1	2	3.150e-02
R THERM3	2	3	1.914e-01
R THERM4	3	Ta	3.992e-01

C THERM1	Tj	1	2.176e-04
C THERM2	1	2	2.661e-03
C THERM3	2	3	1.061e-02
C THERM4	3	Ta	6.217e-02

.ENDS Zth- VS-E(A)5PH6006L



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