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* Vishay Semiconductors *

*Oct 08, 2021

*DD Vishay Semiconductor Italiana SPA

Part Number: VS-E(A)5PX6006L 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-E(A)5PX6006L-N3-25 D model ---> 25°C

.MODEL VS-E(A)5PX6006L D

+ IS=900.94E-6

+ N=4.1528

+ RS=1.8906E-3

+ IKF=2.6428

+ CJO=709.74E-12

+ M=.51596

+ VJ=.3905

+ ISR=10.010E-21

+ NR=4.9950

+ BV=715.06

+ IBV=.25865

+ TT=35.122E-9

+ XTI=39

* VS-E(A)5PX6006L-N3-125 D model ---> 125°C

.MODEL VS-E(A)5PX6006L D

+ IS=4.0519E-3

+ N=3.6675

+ RS=3.3420E-3

+ IKF=3.6655

+ CJO=709.74E-12

+ M=.41596

+ VJ=.3905

+ ISR=10.010E-21

+ NR=4.9950

+ BV=715.06

+ IBV=.25865

+ TT=78.090E-9

+ XTI=35

Thermal Model Subcircuit - TYP

.SUBCKT Zth-E(A)5PX6006L Tj Ta

R THERM1	Tj	1	4.889e-03
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R THERM2	1	2	1.873e-02
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R THERM3	2	3	9.672e-02
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R THERM4	3	Ta	2.540e-01
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C THERM1	Tj	1	3.420e-04
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C THERM2	1	2	4.140e-03
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C THERM3	2	3	1.729e-02
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C THERM4	3	Ta	6.017e-02.
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ENDS Zth-E(A)5PX6006L

Thermal Model Subcircuit - MAX

.SUBCKT Zth-E(A)5PX6006L Tj Ta

R THERM1	Tj	1	9.209e-03
R THERM2	1	2	4.233e-02
R THERM3	2	3	1.861e-01
R THERM4	3	Ta	3.924e-01

C THERM1	Tj	1	2.086e-04
C THERM2	1	2	2.879e-03
C THERM3	2	3	1.275e-02
C THERM4	3	Ta	4.445e-02

.ENDS Zth-E(A)5PX6006L



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