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*May 22, 2023

- *DD Vishay Semiconductor Italiana SPA
- *File Name: VS-E5TH1506S.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 to 125°C
- *DEVICE=VS-E5TH1506S,D
- .MODEL E5TH1506S D
- + IS=19.164E-6
- + N=2.7427
- + RS=4.6018E-3
- + IKF=.33429
- + CJO=224.32E-12
- + M=.41178
- + VJ=.3905
- + ISR=10.010E-21
- + NR=4.9950
- + BV=720.58
- + IBV=.25865
- *use follow TT for spide3f3 compliant simulator ot other Tj simulation
- * + TT=22.430E-9
- + XTI=4
- + Tikf=0.054
- + Trs1=0.0005
- *use follow TT an Vp with LTspice at 25°C
- + TT=22.430E-9
- + Vp=0.19

File Name: Zth-VS-E5TH1506S.txt

*Thermal model

.SUBCKT ZTH-E5TH1506S Tj Ta

RTHERM1	IJ	1	1.4/Ue-U2
RTHERM2	1	2	6.236e-02
RTHERM3	2	3	6.456e-01
RTHERM4	3	Та	5.245e-01
CTHERM1	Tj	1	1.118e-04
CTHERM2	1	2	1.282e-03
CTHERM3	2	3	8.278e-02
CTHERM4	3	Ta	5.418e-03
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.ENDS ZTH-E5TH1506S



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