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*DD Vishay Semiconductor Italiana SPA

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*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 @25°C-125°C

* DEVICE=VS-1-2EQH01-02, Diode

.MODEL VS-2EQH02HM3 D

+ IS= 2.209e-07

+ N= 2.094

+ RS= 1.870e-02

+ IKF= 1.75

+ CJO= 1.773e-11

+ M= 0.175

+ VJ= 0.359

+ ISR= 1.001e-20

+ NR= 4.995

+ BV=230.0

+ IBV= 1.00e-05

+ TT= 1.937e-08

*Add subsequent parameters for temperature behavior:

+ XTI=3

+ TIKF=0.036

+ TRS1=3.5e-03

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

*+ TT=16e-9

*+ Vp=0.15

*DEVICE=VS-1-2EQH01-02, Diode

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth-VS-1-2EQH01-02 Tj Tc

R THERM1	Tj	1	1.675e-02
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R THERM2	1	2	1.379e+01
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R THERM3	2	Tc	2.324e+00
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C THERM1	Tj	1	3.218e-04
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C THERM2	1	2	1.208e-03
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C THERM3	2	Tc	2.385e-04
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.ENDS zth-VS-1-2EQH01-02



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