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\*Oct 18, 2023

\*DD Vishay Semiconductors Italiana SPA

\*File Name: 6ESH01-02.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.

\* Electrical spice model @(25°C & 125°C)

.MODEL VS-6ESH01-02 D

+ IS=102.01E-9

+ N=1.6098

+ RS=6.7089E-3

+ IKF=.32499

+ CJO=220.19E-12

+ M=.3333

+ VJ=.75

+ ISR=10.010E-21

+ NR=4.9950

+ BV=250.27

+ IBV=3.2333

+ TT=22.351E-9

+ XTI=-1.4

+ Tikf=0.052

+ Trs1=0.0005

.END

\*THERMAL MODEL SUBCIRCUIT

\*RC Forster model

\*R are expressed in  $\Omega \rightarrow ^\circ\text{C}/\text{W}$

\*C are expressed in F  $\rightarrow \text{J}/^\circ\text{C}$

.SUBCKT zth\_VS\_6ESH01-02\_JC Tj Tc

R THERM1	Tj	1	1.030e+00
R THERM2	1	2	4.784e-02
R THERM3	2	3	1.098e+00
R THERM4	3	Tc	1.422e-02

C THERM1	Tj	1	3.150e-03
C THERM2	1	2	6.354e-04
C THERM3	2	3	2.539e-02
C THERM4	3	Tc	8.563e-05

.ENDS zth\_VS\_6ESH01-02\_JC



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