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\*March 2, 2026

\*DD Vishay Semiconductor Italiana SPA

\*File Name: E7SX0112.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 @25°C-125°C

\* DEVICE= E7SX0112, D

.MODEL E7SX0112 D

+ IS=76.992E-6

+ N=4.2190

+ RS=.1115

+ IKF=2.7888E-3

+ CJO=9.6575E-12

+ M=.16723

+ VJ=.3905

+ ISR=10.010E-21

+ NR=4.9950

+ BV=1.3505E3

+ IBV=10

+ TT=42.5E-9

+ XTI=28

+ Tikf=0.046

+ Trs1=0.0018

\*THERMAL MODEL SUBCIRCUIT

\*RC Foster model

.SUBCKT zth- E7SX0112 Tj Tc

R THERM1	Tj	1	6.64231E-01
R THERM2	1	2	3.01977E+00
R THERM3	2	3	4.25091E+00
R THERM4	3	4	4.57792E+00
R THERM5	4	Tc	2.49990E+00

C THERM1	Tj	1	9.97003E-04
C THERM2	1	2	6.98812E-04
C THERM3	2	3	1.39649E-02
C THERM4	3	4	5.75070E-02
C THERM5	4	Tc	7.46989E-01

.ENDS zth- E7SX0112



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