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*DD Vishay Semiconductor Italiana SPA
*File Name: VS-HFA16TA60C-HFA08TB60.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-150°C
*DEVICE= VS-HFA16TA60C-HFA08TB60, Diode

.MODEL VS-HFA16TA60C-HFA08TB60 D
+ IS= 2.238e-04
+ N= 4.407
+ RS= 1.489e-02
+ IKF= 30.29
+ CJO= 5.447e-11
+ M= 0.505
+ VJ= 4.089
+ ISR= 1.001e-20
+ NR= 4.995
+ BV=690.0
+ IBV= 1.00e-04
+ TT= 4.282e-08
*Add subsequent parameters for temperature behavior:
+ XTI=6.5
+ TIKF=0.048
+ TRS1=7.5e-04

THERMAL MODEL SUBCIRCUIT

*RC Foster model
.SUBCKT zth-HFA16TA60C-HFA08TB60 Tj Tc

R THERM1	Tj	1	8.643e-01
R THERM2	1	2	1.025e-02
R THERM3	2	3	3.435e-02
R THERM4	3	Tc	6.954e-01

C THERM1	Tj	1	4.495e-03
C THERM2	1	2	1.231e-04
C THERM3	2	3	9.417e-04
C THERM4	3	Tc	5.175e-02

.ENDS zth-HFA16TA60C-HFA08TB60



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