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*February 10, 2026

*DD Vishay Semiconductor Italiana SPA

*File Name: 4C20CP07L-M3.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= 4C20CP07L-M3, SiC Diode

.MODEL 4C20CP07L-M3 D

+ IS=1.525187E-10

+ N=1.538690E+00

+ RS=3.179960E-02

+ IKF=2.000000E+01

+ EG=3.260000E+00

+ CJO=5.752114E-10

+ M=4.670086E-01

+ VJ=1.200000E+00

+ FC=5.000000E-01

+ ISR=1.000000E-10

+ NR=4.995000E+00

+ BV=8.369720E+02

+ IBV=5.000000E-03

+ TT=1.000000E-08

+ XTI=-7.393336E+01

+ TIKF=-5.246224E-08

+ TRS1=-2.253528E-03

+ TRS2=7.500000E-05

*THERMAL MODEL SUBCIRCUIT

*RC Foster model

.SUBCKT zth- 4C20CP07L-M3 Tj Tc

R THERM1	Tj	1	4.30529E-01
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R THERM2	1	2	4.34914E-01
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R THERM3	2	3	3.23492E-01
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R THERM4	3	Tc	2.84315E-01
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C THERM1	Tj	1	1.41224E-03
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C THERM2	1	2	8.54202E-03
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C THERM3	2	3	2.32903E-02
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C THERM4	3	Tc	1.40154E-01
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.ENDS zth- 4C20CP07L-M3



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