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*July 13, 2022
*DD Vishay semiconduttori italiana SPA
*File Name: VS-50WQ04-12CWQ04
*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 at 25°C
*DEVICE=VS-50WQ04-12CWQ04, D

.MODEL 50WQ04FN D
+ IS=10.000E-6
+ N=1.2113
+ RS=15.026E-3
+ IKF=1.0817
+ CJO=1.5675E-9
+ M=.52196
+ VJ=.3905
+ ISR=814.59E-9
+ NR=4.9950
+ BV=51
+ IBV=10.000E-3

.ENDS

Thermal Model Subcircuit

.SUBCKT VS- 50WQ04-12CWQ04 5 1

CTHERM1	5	4	5.00E-03
CTHERM2	4	3	4.99E-03
CTHERM3	3	2	1.37E-03
CTHERM4	2	1	2.09E-02
R THERM1	5	4	2.29E-02
R THERM2	4	3	1.21E+00
R THERM3	3	2	2.20E-01
R THERM4	2	1	1.55E+00

.ENDS VS- 50WQ04-12CWQ04



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