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*December 15, 2023

*DD Vishay Semiconductors Italiana SPA

*File Name: VS-30BQ015

*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-30BQ015, D

.MODEL VS-30BQ015 D

+ IS=90.917E-6

+ N=1.0783

+ RS=16.054E-3

+ IKF=3.2480

+ CJO=1.0029E-9

+ M=.49879

+ VJ=.3905

+ FC=30.000E-3

+ ISR=1.5326E-3

+ NR=4.9950

+ BV=18.059

+ IBV=0.1

.ENDS

Thermal Model Subcircuit

.SUBCKT VS- 30BQ015 5 1

| | | | |
|---------|---|---|----------|
| CTHERM1 | 5 | 4 | 1.47E-04 |
| CTHERM2 | 4 | 3 | 6.02E-03 |
| CTHERM3 | 3 | 2 | 9.74E-02 |
| CTHERM4 | 2 | 1 | 1.56E+00 |

| | | | |
|----------|---|---|----------|
| R THERM1 | 5 | 4 | 7.75E-01 |
| R THERM2 | 4 | 3 | 2.84E+00 |
| R THERM3 | 3 | 2 | 4.93E+01 |
| R THERM4 | 2 | 1 | 3.34E+00 |

.ENDS VS- 30BQ015



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