

Thermal Resistance Modeling Report

Two-Resistor Model: BD9G341AEFJ

This application note provides the information needed to create a two-resistor model for thermal simulation of the buck switching regulator IC BD9G341AEFJ. The thermal simulations mentioned here cover three-dimensional thermal conduction and thermal fluid analysis tools.

Product Summary

Model name: [BD9G341AEFJ](#)

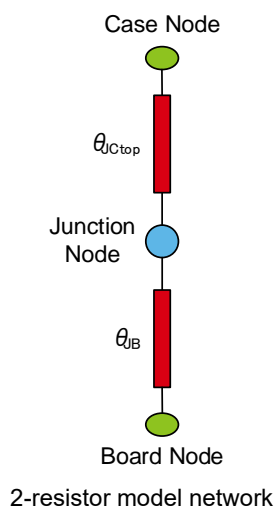
Package name: HTSOP-J8

Function: Buck switching regulator IC

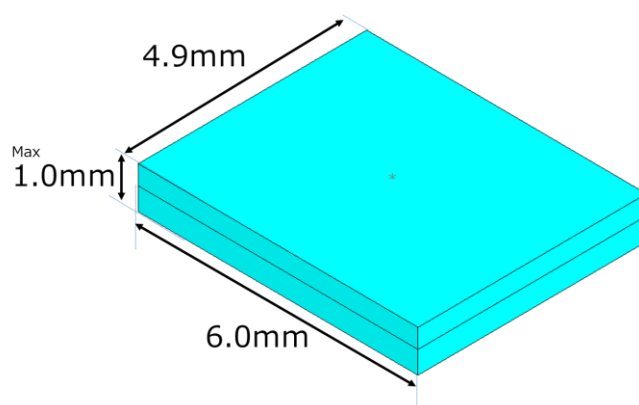
See [Datasheet](#) for more details.

Thermal Resistance

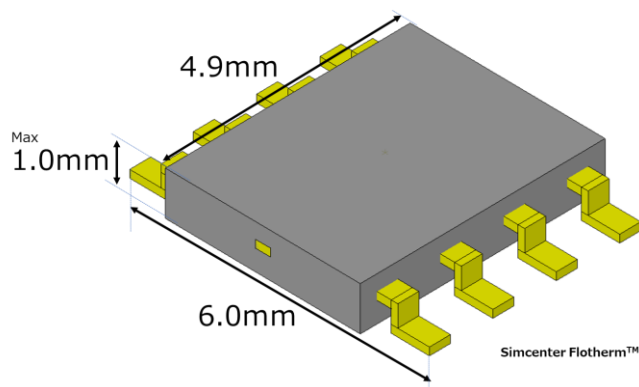
Element	Value
θ_{JCtop}	38.5 [°C/W]
θ_{JB}	8.2 [°C/W]



3D Model Shape



Two-resistor model



Detailed model

References

- [1] JESD15-3:2008, *Two-Resistor Compact Thermal Model Guideline*
- [2] '[Two-Resistor Model for Thermal Simulation](#)' ROHM

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