

Thermal Resistance Modeling Report

Two-Resistor Model: BD42530EFJ-C

This application note provides the information needed to create a two-resistor model for thermal simulation of the voltage tracker IC BD42530EFJ-C. The thermal simulations mentioned here cover three-dimensional thermal conduction and thermal fluid analysis tools.

Product Summary

Model name: [BD42530EFJ-C](#)

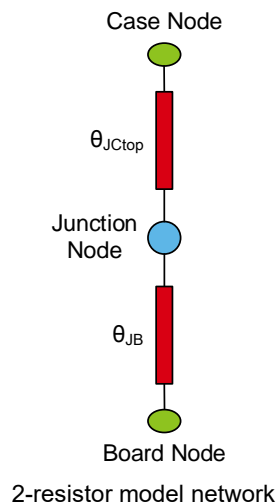
Package name: HTSOP-J8

Function: Voltage tracker IC

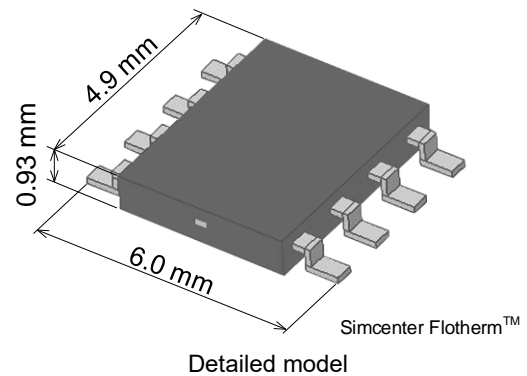
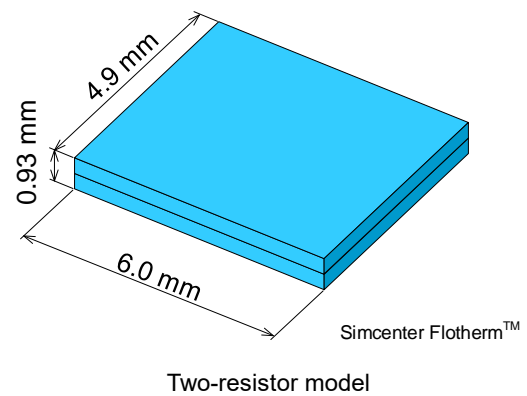
See [Datasheet](#) for more details.

Thermal Resistance

Element	Value
θ_{JCtop}	40.8 [$^{\circ}\text{C}/\text{W}$]
θ_{JB}	15.2 [$^{\circ}\text{C}/\text{W}$]



3D Model Shape



References

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

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