

Thermal Resistance Modeling Report

Two-Resistor Model: BD83A04EFV-M

This application note provides the information needed to create a two-resistor model for thermal simulation of LED Driver IC BD83A04EFV-M. The thermal simulations mentioned here cover three-dimensional thermal conduction and thermal fluid analysis tools.

Product Summary

Model name: [BD83A04EFV-M](#)

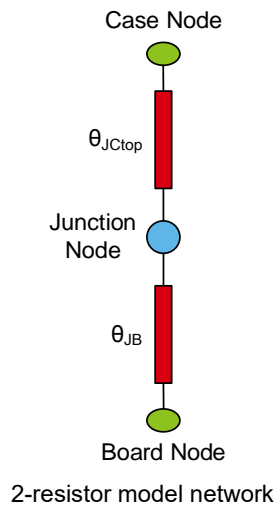
Package name: HTSSOP-B24

Function: LED Driver IC

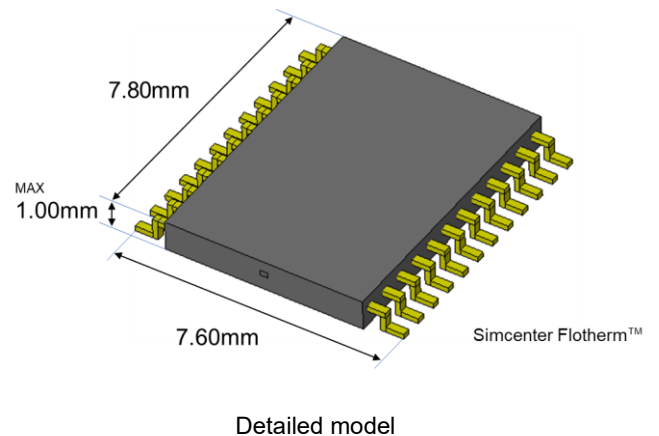
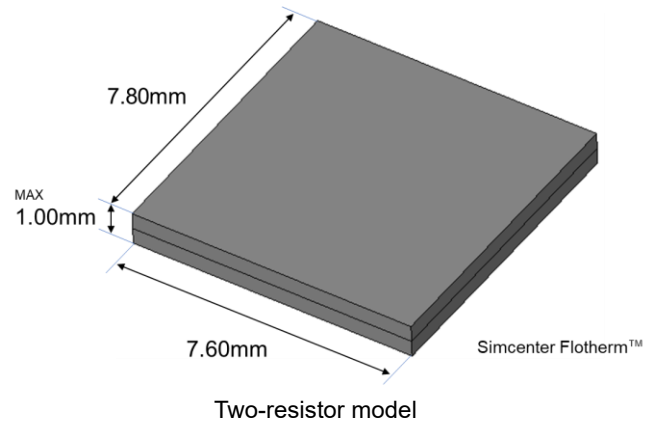
See [Datasheet](#) for more details.

Thermal Resistance

Element	Value
θ_{JCtop}	17.8 [°C/W]
θ_{JB}	13.7 [°C/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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