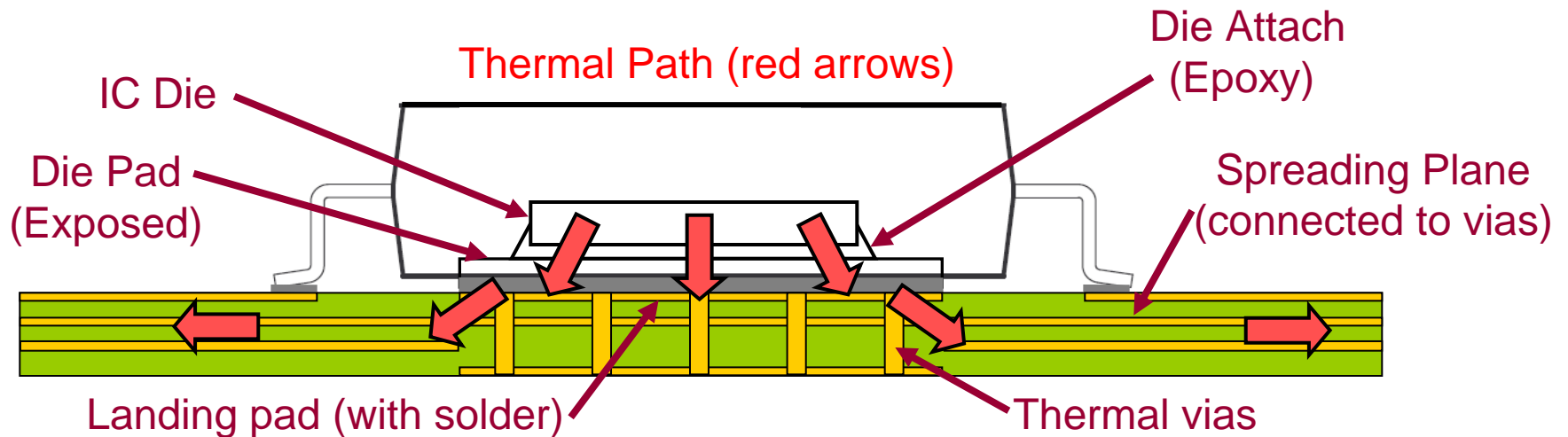


How a PowerPAD™ Package Works

Sandra Horton
Texas Instruments
Analog packaging

October 18, 2010

Heat Path for a Soldered PowerPAD™ Device



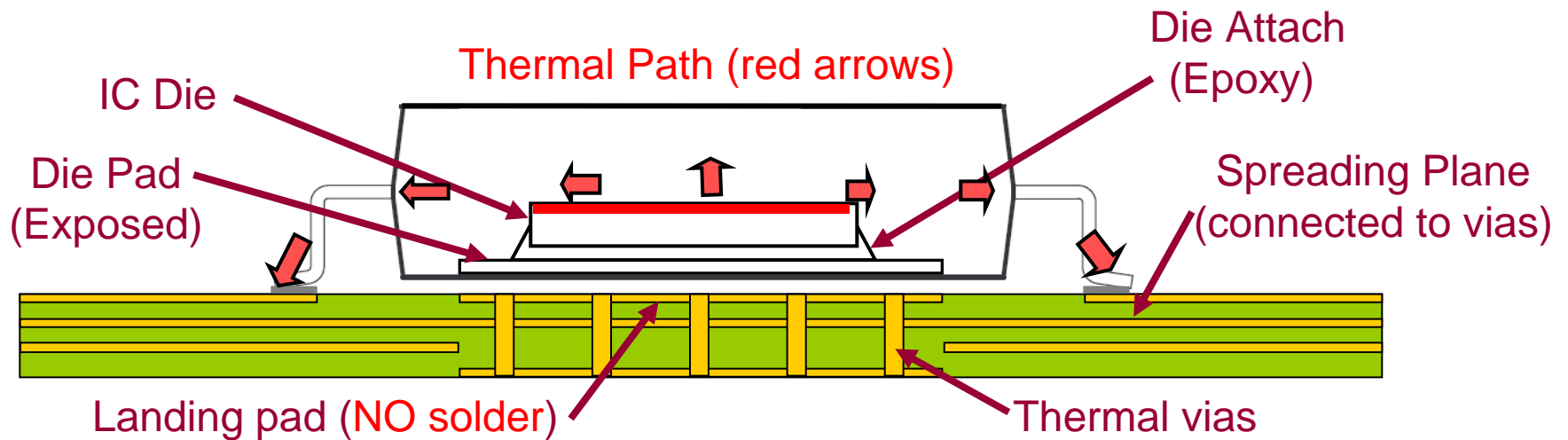
- In a soldered PowerPAD™ device, the heat travels from the die, through the die attach, to the die pad, through the solder and into the PCB where it is dissipated to the air.

●

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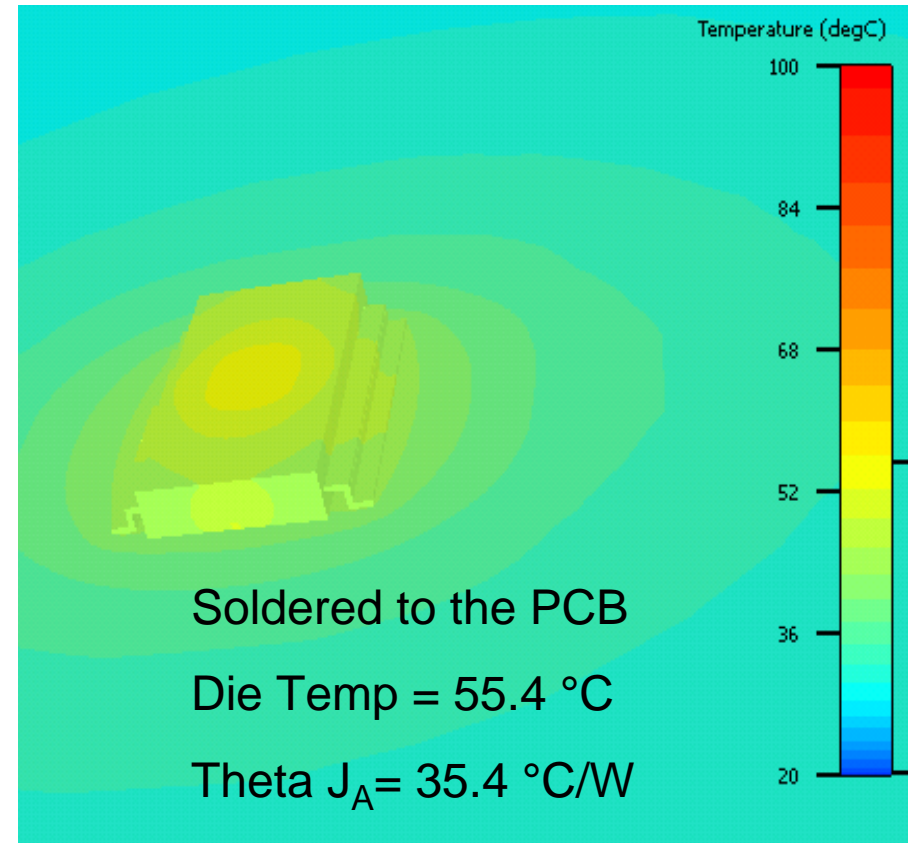
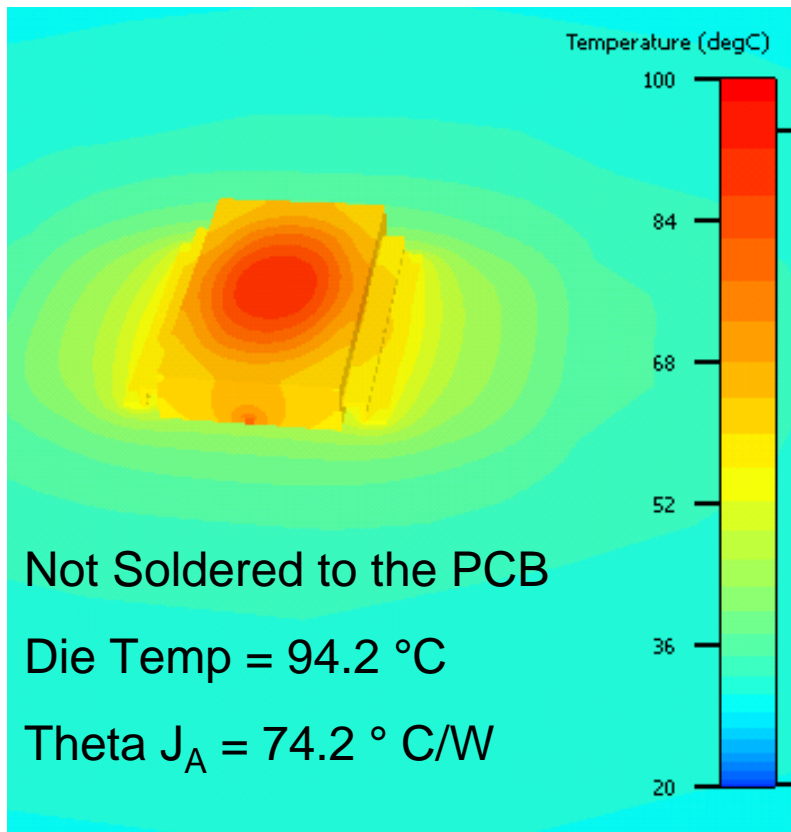
PowerPAD is a trademark of Texas Instruments

Heat Path for a Non-Soldered PowerPAD™ Device



- Without solder, heat flow is greatly limited causing an increase in die temperature.

Comparison of Soldered and Non-Soldered 28PWP Device



* It is important to solder the exposed pad to the PCB to ensure good thermal performance. *

Learn More

- For more details, check out the PowerPAD™ application note here :

<http://www.ti.com/lit/pdf/smla002>

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