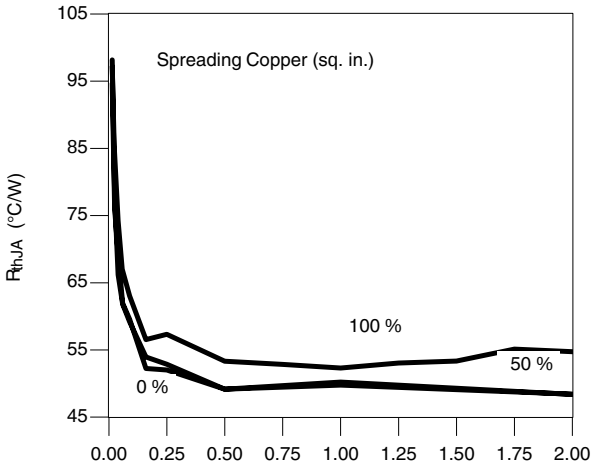


Figure 5. Spreading Copper - Si7401DN

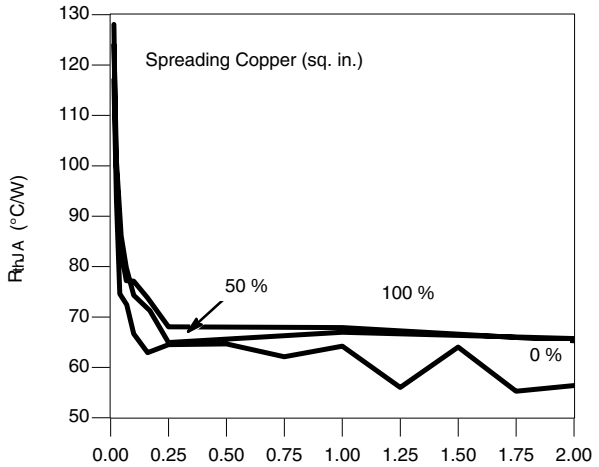


Figure 6. Spreading Copper - Junction-to-Ambient Performance

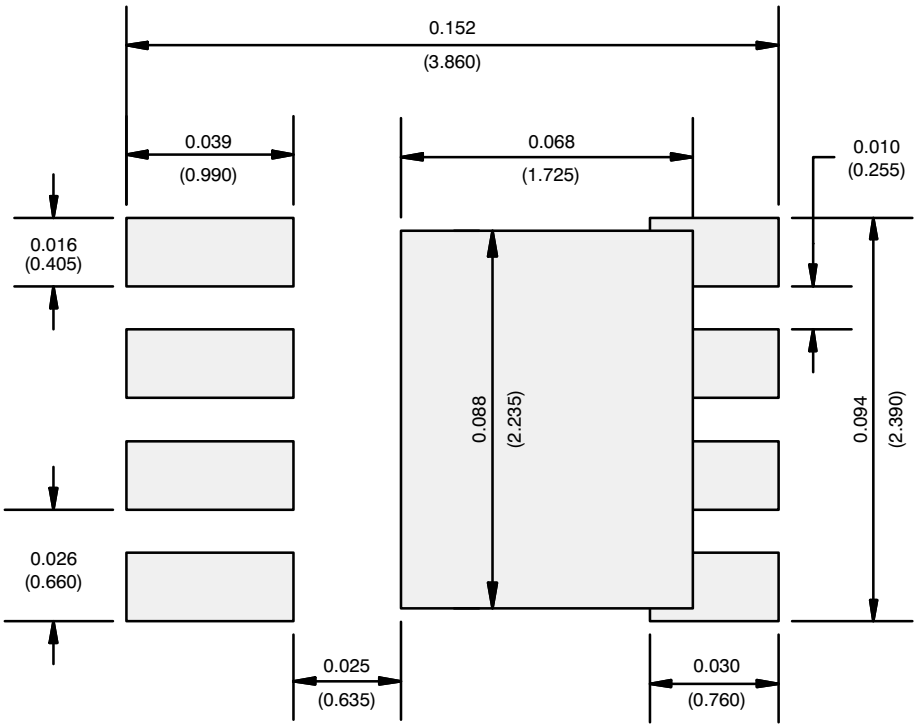
CONCLUSIONS

As a derivative of the PowerPAK SO-8, the PowerPAK 1212-8 uses the same packaging technology and has been shown to have the same level of thermal performance while having a footprint that is more than 40 % smaller than the standard TSSOP-8.

Recommended PowerPAK 1212-8 land patterns are provided to aid in PC board layout for designs using this new package.

The PowerPAK 1212-8 combines small size with attractive thermal characteristics. By minimizing the thermal rise above the board temperature, PowerPAK simplifies thermal design considerations, allows the device to run cooler, keeps $r_{DS(ON)}$ low, and permits the device to handle more current than a same- or larger-size MOSFET die in the standard TSSOP-8 or SO-8 packages.

RECOMMENDED MINIMUM PADS FOR PowerPAK® 1212-8 Single



Recommended Minimum Pads
Dimensions in Inches/(mm)

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