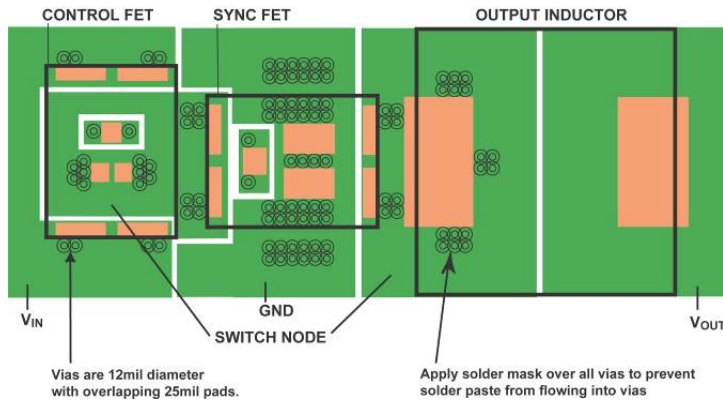


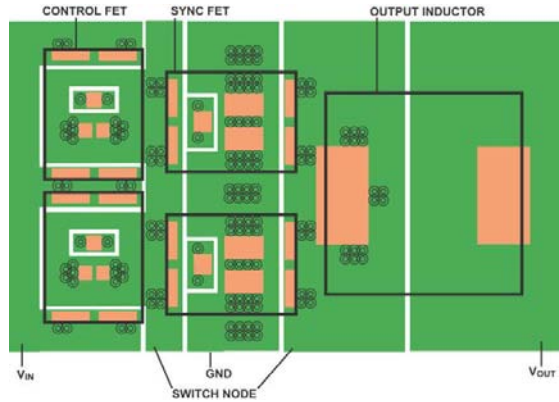
# Board Layout Engineer

## Using the Can of the Sync FET instead of PCB Trace to Connect Control FET to Inductor

DirectFET can is equivalent to 7 oz. copper

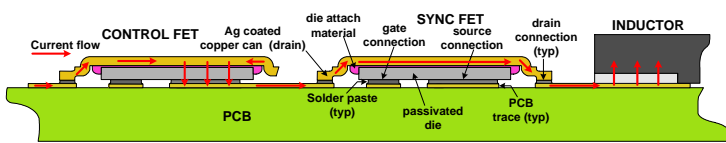


## Parallel Layout Using Can as Connection

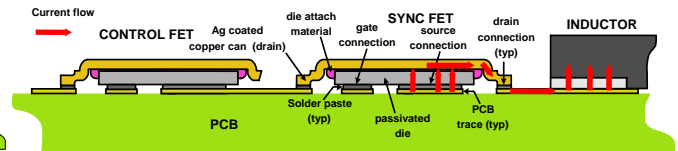


<http://www.irf.com/product-info/hexfet/dflayex.html>

## Synchronous Buck Regulator Example



Side View of Current Flow w. Control FET On

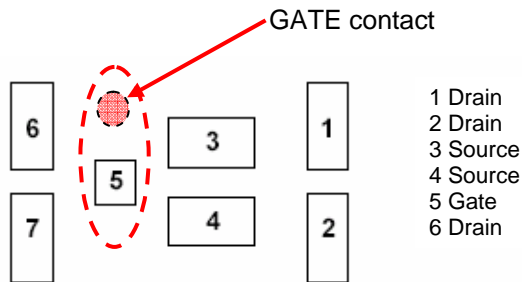


Side View of Current Flow w. Sync FET On

<http://www.irf.com/product-info/hexfet/dfimpvsfreq.html>

## Suggested PAD numbering

If pad numbering is required to produce a component outline within the library of a CAD system, International Rectifier recommends that the convention shown in Fig. 2 is adopted. This makes it easier to discuss any issues that may arise during design and assembly.



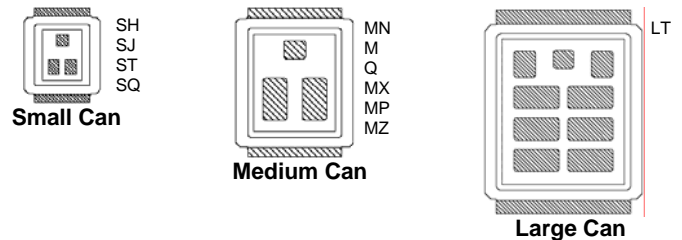
(viewed from top of substrate)

**Fig.2: Recommended pad numbering**

<http://www.irf.com/product-info/hexfet/dfmarkings.html>

## DirectFET outlines

The new method of outline identification breaks all of the low voltage devices into up to 3 die sizes' within each can.



<http://www.irf.com/product-info/hexfet/dfboardlayout.html>