

By doing some debugging on an existing product, I found that we don't meet a parameter for the CSD86350Q5D mosfet.

So we use the TPS51727 with 4 Buck NexFET (see 2<sup>nd</sup> figure)

Each of GATEH1 and GATEH2 signals drive 2 Buck NexFET's.

CSD86350Q5D asks for a 4.5V level for Vgs to get in the proper linear region

But the TPS51727 drives only 4.3V.

Is it because I have 2 mosfet connector on the GATEH signals...?

The signal is flat during the active period. I would expect a slope if it was capacitance issue...

On the evaluation board, there is a provision to install a 5.11 ohm and Zener diode to help VBSTx (see first figure)

If this could improve the swing level, do I need to add the 5.11 ohm resistor

Maybe I can use another mosfet having better Vgs characteristics..



