

Hello.

I have a question about UCC 28070.

Q1

When the UCC28070 starts, the GDA and GDB pins start output. Both GDA and GDB pins output one pulse and then stop until the next output is output. why?

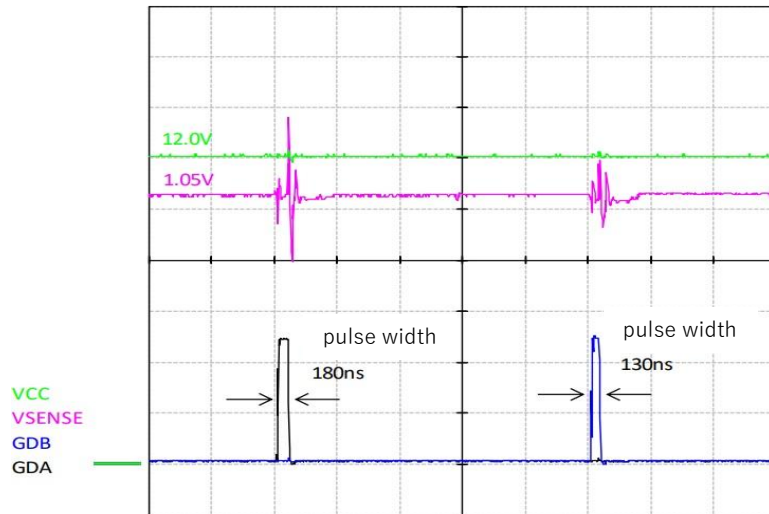
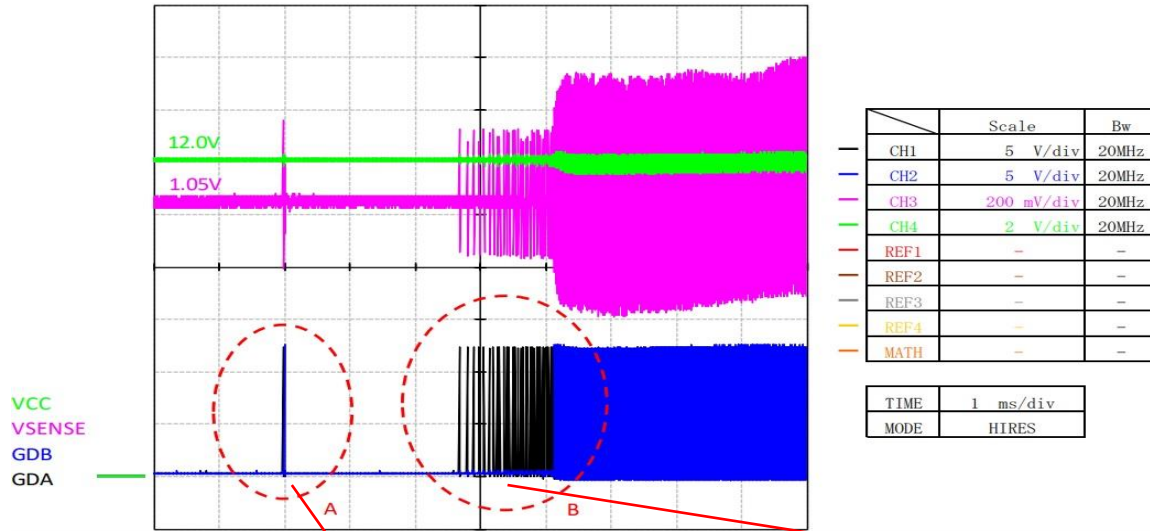
In addition, after stopping, only the GDA terminal outputs at the start of movement. Why is the GDB pin not outputting?

Q2

After raising SS-PIN from low to high, there is a delay of about 25 ms until the GDA-pin starts output. why?

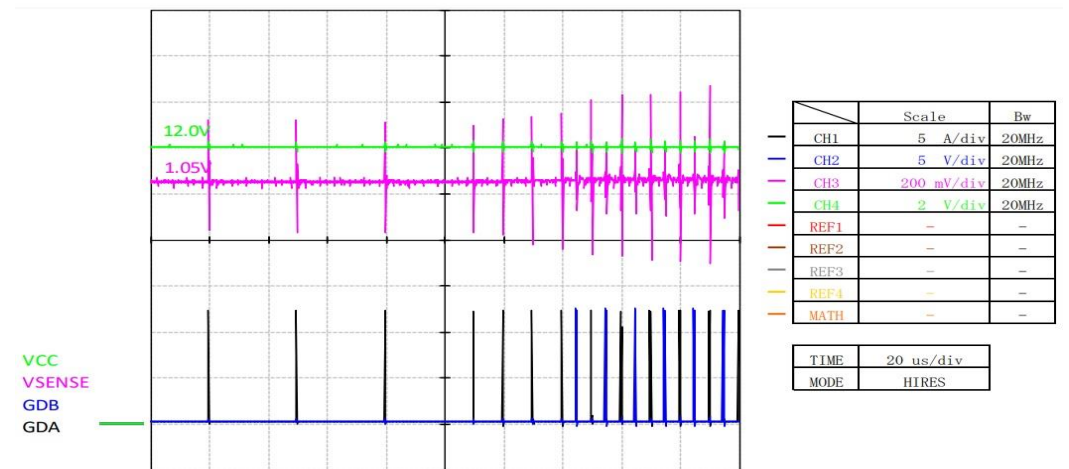
Is this delay related to the operation of the VAO pin?

A part expansion



After GDA and GDB output one pulse at the start of operation, GDA and GDB do not output a pulse until it becomes part B.

B part expansion

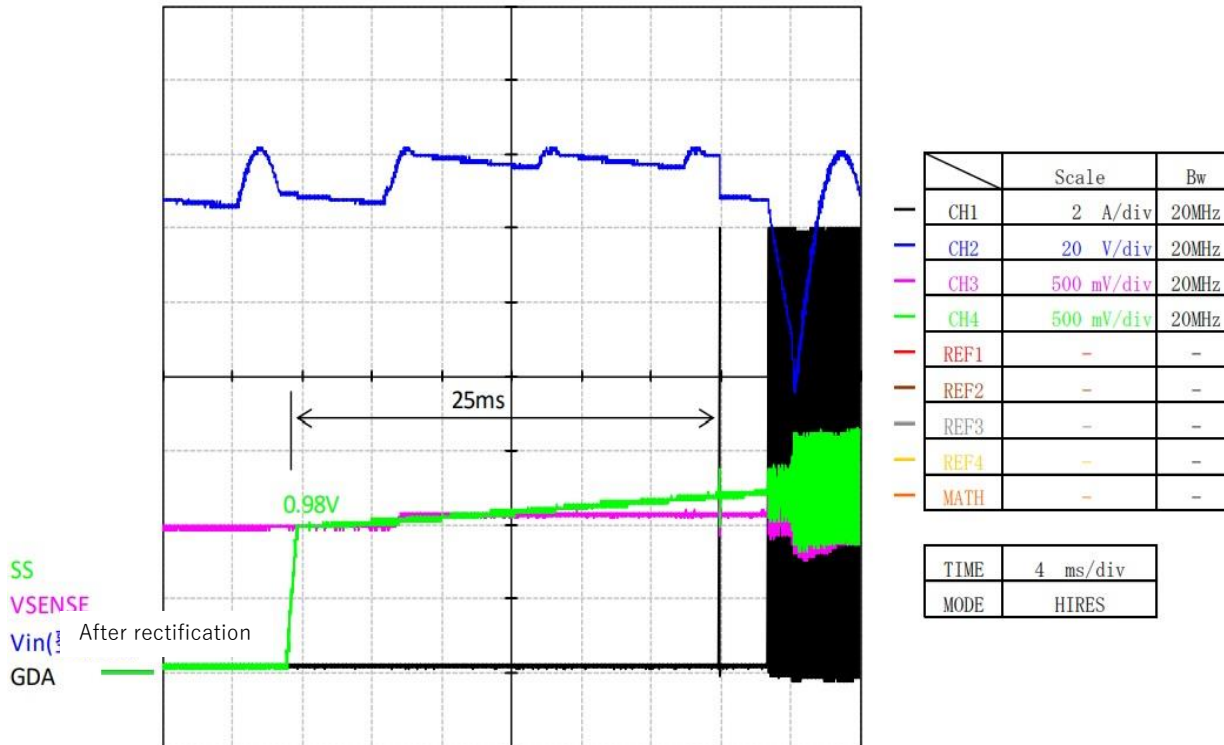


There is a section where only GDA outputs a pulse at the beginning.

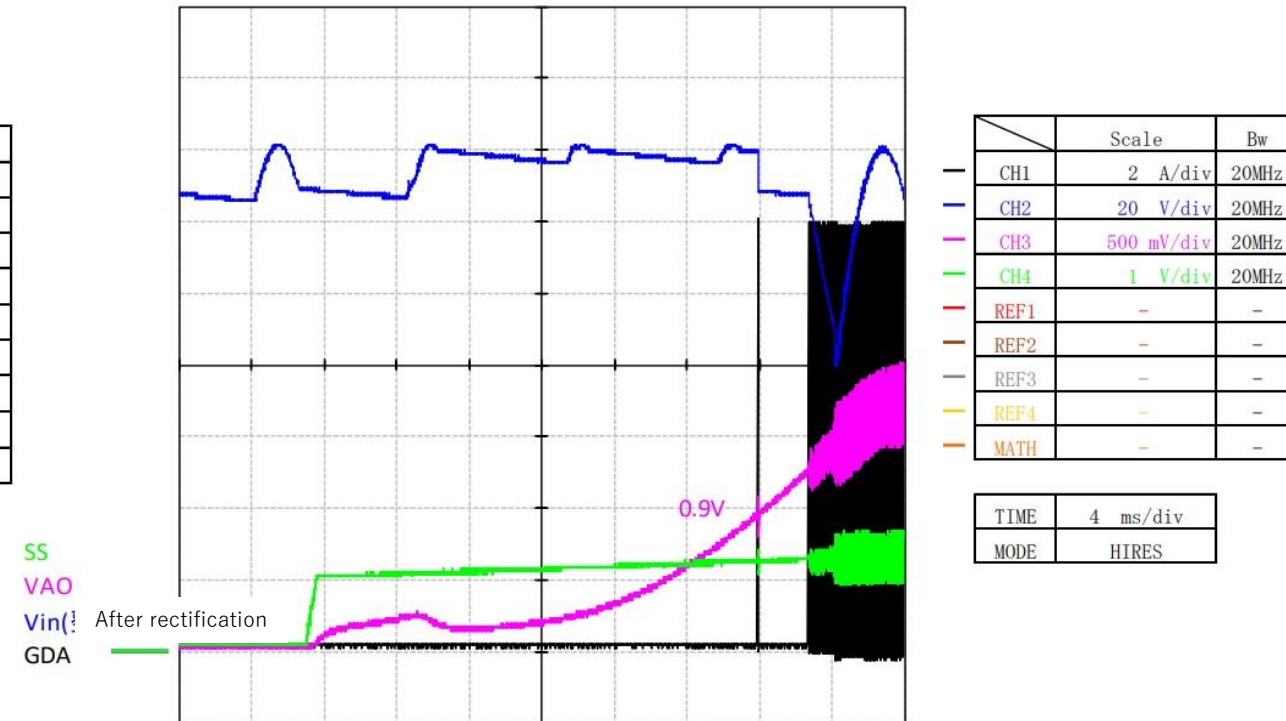
Q3

In the case other than Q1, does one of GDA and GDB stop or does an operation with a pulse width deviation occur?

If so, what is the cause?



Stop activation with SS-PIN



VAO-PIN confirmation

The upper waveform : after raising the SS terminal from low level to high level, a delay of about 25 ms was confirmed until GDA started to output.

Lower waveform: When the movement of VAO is confirmed, the voltage of the VAO terminal starts to rise, and the output of GDA is started when it reaches about 0.9 V.