Last inquiry contents

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?

Q3

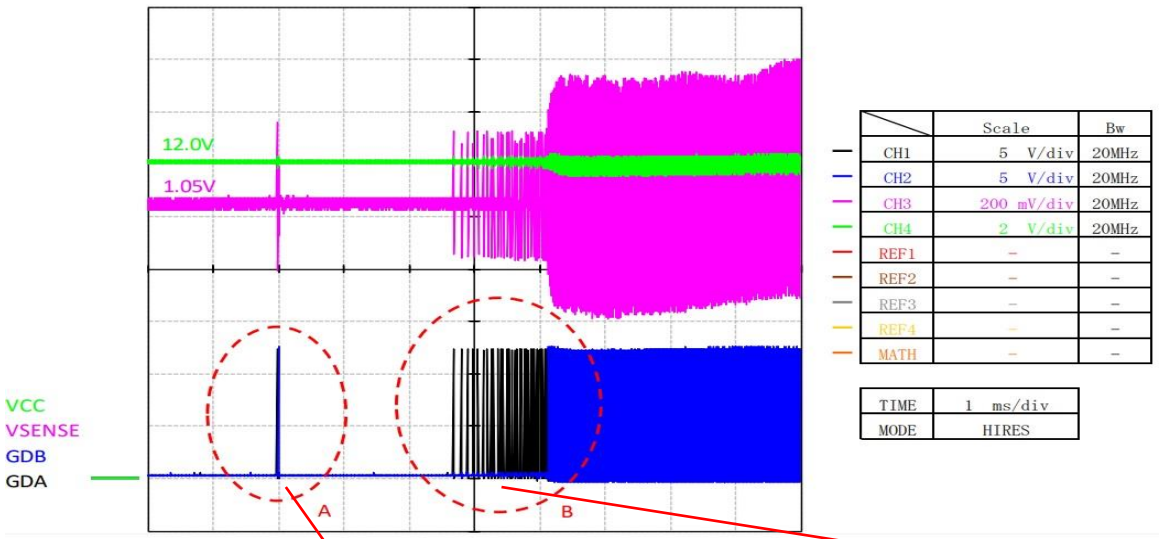
In the case other than Q1, does one of GDA and GDB stop or does an operation with a pulse width deviation occur?
If so, what is the cause?

you please send a waveform which is ZOOM at the first pulse moment

.

Waveforms 2 and 3 are ZOOM waveforms at point A and point B.
If you need other ZOOM waveforms, please indicate in detail.

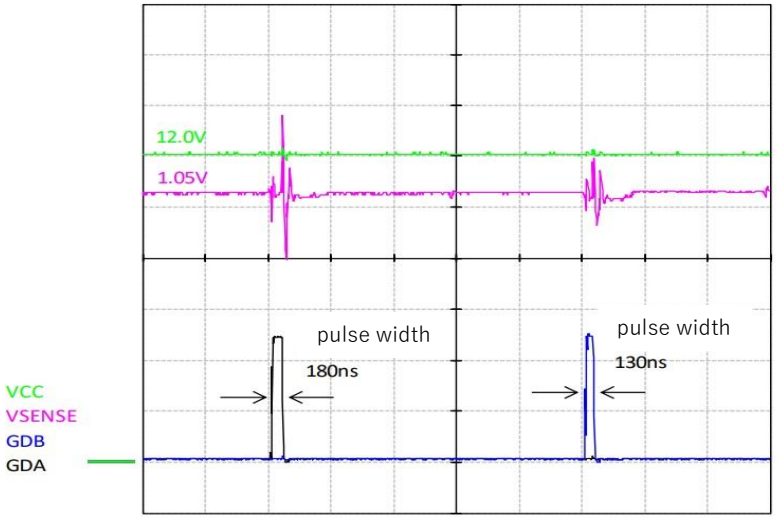
Waveform 1



	Scale	Bw
CH1	5 V/div	20MHz
CH2	5 V/div	20MHz
CH3	200 mV/div	20MHz
CH4	2 V/div	20MHz
REF1	–	–
REF2	–	–
REF3	–	–
REF4	–	–
MATH	–	–

TIME	1 ms/div
MODE	HIRES

A point expansion



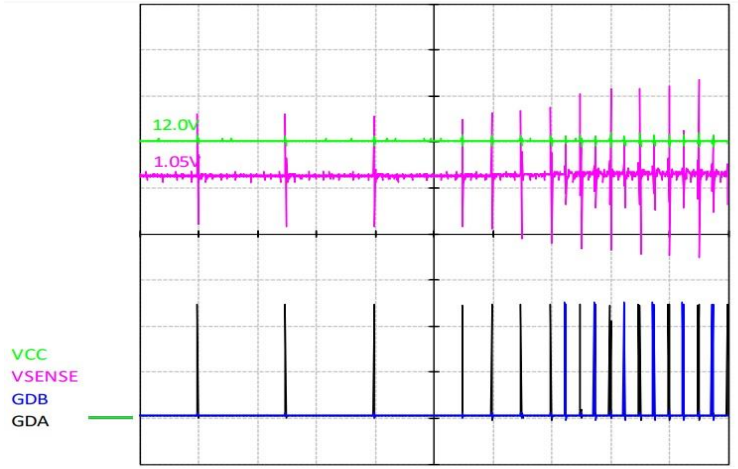
	Scale	Bw
CH1	5 A/div	20MHz
CH2	5 V/div	20MHz
CH3	200 mV/div	20MHz
CH4	2 V/div	20MHz
REF1	–	–
REF2	–	–
REF3	–	–
REF4	–	–
MATH	–	–

TIME	1 us/div
MODE	HIRES

Waveform 2

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 point expansion



	Scale	Bw
CH1	5 A/div	20MHz
CH2	5 V/div	20MHz
CH3	200 mV/div	20MHz
CH4	2 V/div	20MHz
REF1	–	–
REF2	–	–
REF3	–	–
REF4	–	–
MATH	–	–

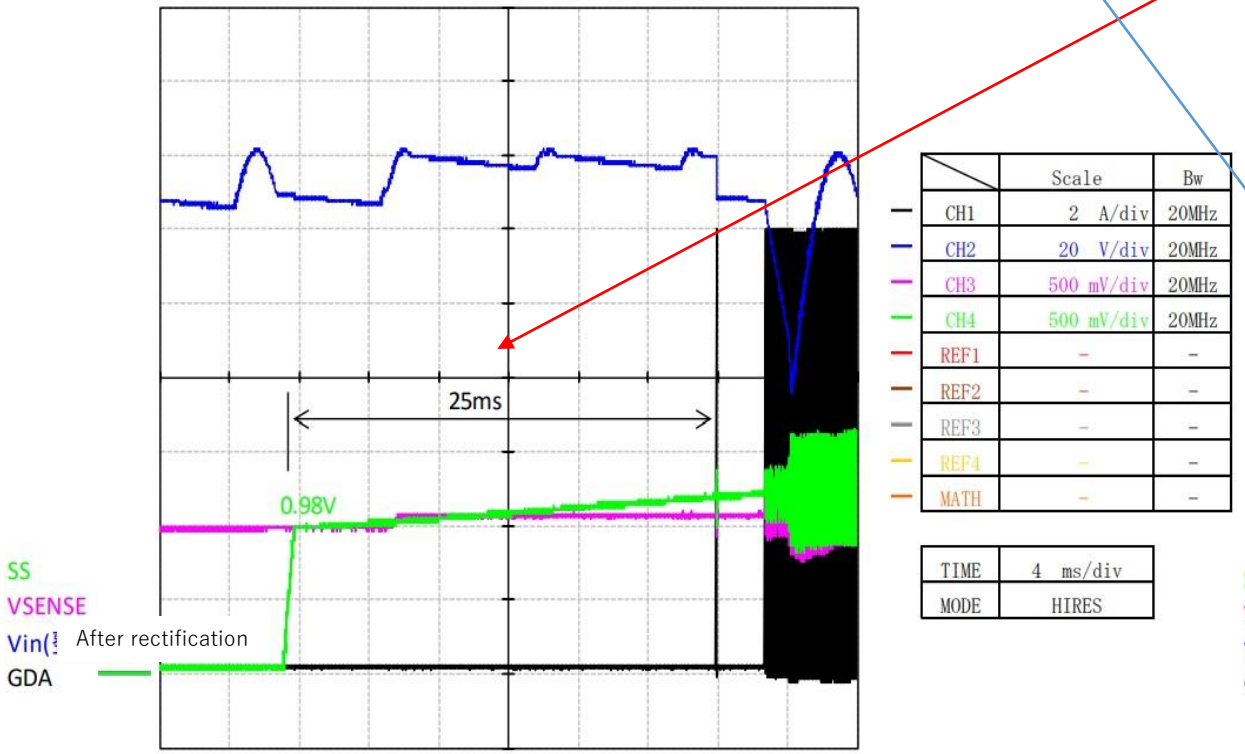
TIME	20 us/div
MODE	HIRES

Waveform 3

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

Last inquiry contents
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?

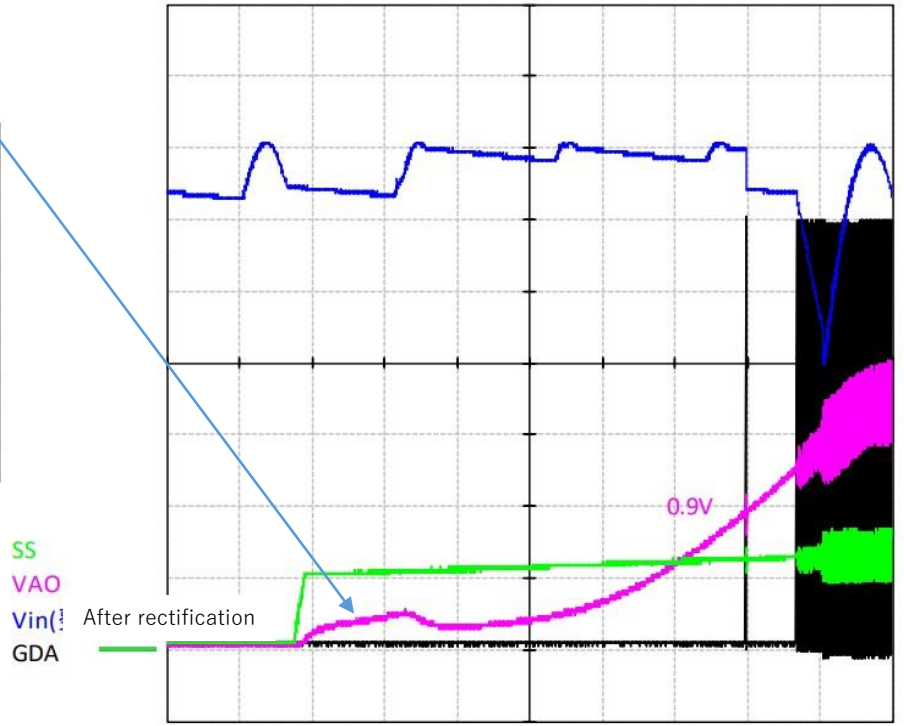
Q2-2
Specifically, in which state and in what state do delays occur?



	Scale	Bw
CH1	2 A/div	20MHz
CH2	20 V/div	20MHz
CH3	500 mV/div	20MHz
CH4	500 mV/div	20MHz
REF1	-	-
REF2	-	-
REF3	-	-
REF4	-	-
MATH	-	-

TIME	4 ms/div
MODE	HIRES

Waveform 4
Stop activation with SS-PIN



	Scale	Bw
CH1	2 A/div	20MHz
CH2	20 V/div	20MHz
CH3	500 mV/div	20MHz
CH4	1 V/div	20MHz
REF1	-	-
REF2	-	-
REF3	-	-
REF4	-	-
MATH	-	-

TIME	4 ms/div
MODE	HIRES

Waveform 5
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.