**BLOCK DIAGRAM**

VCC=12V

VCC=12V

1.5KΩ

100pF   1KΩ

OVP/EN | 10

VAOUT | 7

VSENSE | 11

VAI | 13

VFF | 8

IAC | 6

MOUT | 5

VOLTAGE ERROR AMP

$X^2$

MIRROR 2:1

470Ω

33Ω

Vi

MULT

$\frac{X}{X \div X}$

CURRENT AMP

1.9 V  ENABLE

0.33 V  ZERO POWER

PWM

OSC

CLK

OSCILLATOR

8.0 V  OVP

PWM LATCH
S   Q

R   R

CLK

VCC

UVLO
10.2 V/9.7 V

VCC

7.5 V REFERENCE | 9 | VREF

15 | VCC

16 | DRVOUT

1 | GND

2 | PKLMT

CAI | 4   CACUT | 3   RT | 12   CT | 14

220pF

22KΩ

UDG-03124

Figure 1

Hello

I am using the UCC2819A.
Currently, I make boats and evaluate them.
In the evaluation, noise was generated and investigated

. Therefore we measured the threshold using the circuit in Figure 1 of the device with abnormal noise and the normal device.
The voltage of VI is changed in FIG. Pulsed out at DRVOUT.
Measure the voltage of VAI-pin.
The result is shown in Table 1.

Question
The NG sample is pulsed at VAI pin voltage = 0V DRVOUT.
The OK sample comes out at 0.5V.
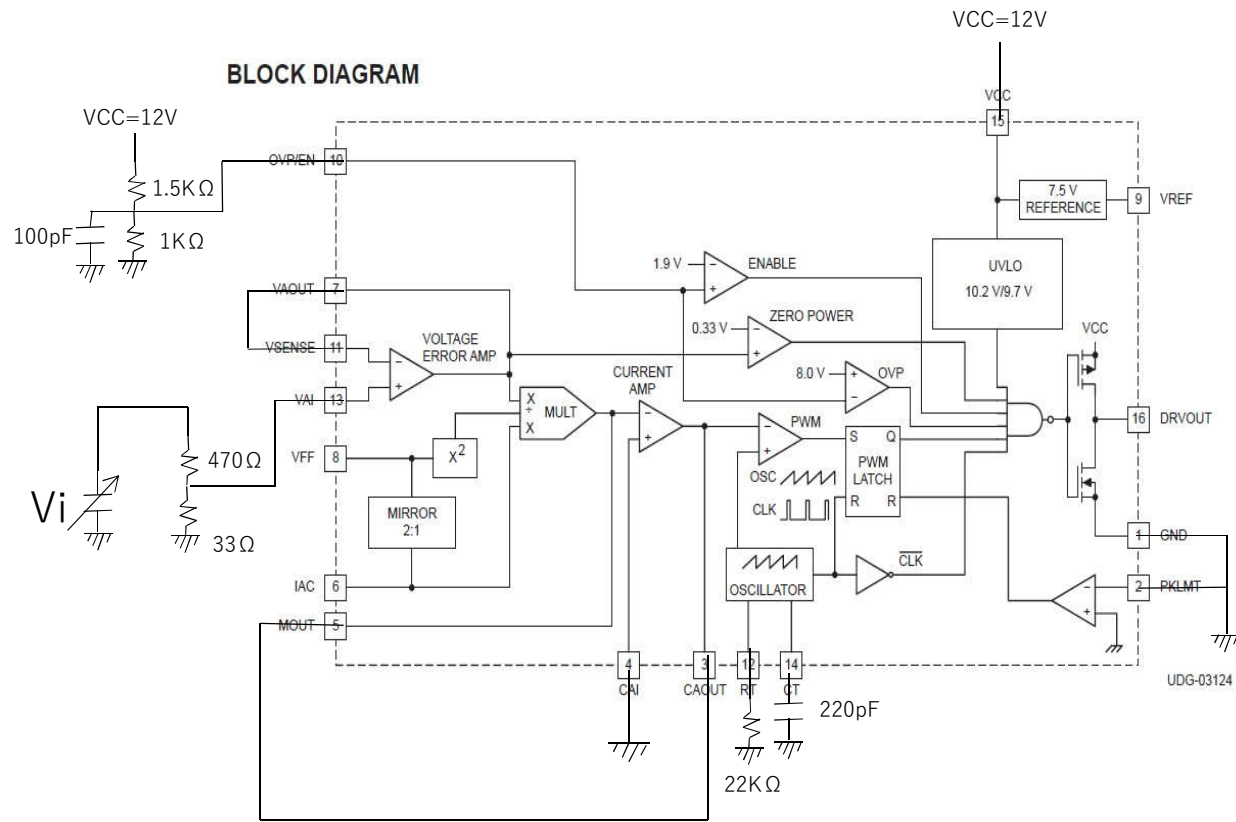Why does it pulse at VAI pin voltage = 0V DRVOUT?

Thank you.

| sample | Vai_pin voltage | |
| | OFF→ON | ON→OFF |
|---|---|---|
| OK1 | 0.588 | 0.584 |
| OK2 | 0.582 | 0.578 |
| OK3 | 0.594 | 0.585 |
| | | |
| NG1 | 0 | 0 |
| NG2 | 0 | 0 |
| NG3 | 0 | 0 |

Table 1