

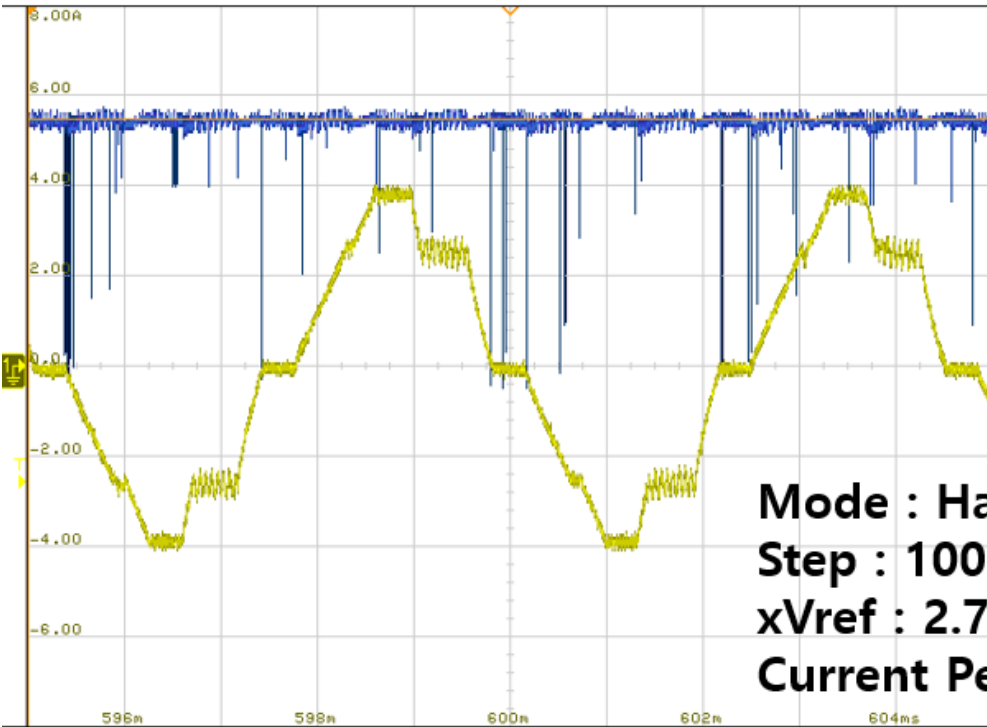
DRV8825EVM Test

ISENSx: 0.1ohm, Mode: Half step, xVREF: refer to the table below

xVREF	Output current (peak), 1000 PPS	Output current (peak), 4200 PPS
1.64V	2.58A	
1.91V	2.95A	2.14A
2.1V	3.28A	2.31A
2.43V	3.62A	2.74A
2.73V	4A	2.81A

1. Overcurrent protection trip level is 3A, minimum, but output current is 4A under VREF 2.73V and 1000 PPS conditions. Please let me know why OCP is not working under the above conditions.
2. There is a difference between calculated chopping current and measured current. For example, 4A (measured current) and $2.73V / (5 \times 0.1ohm) = 5.46A$ (calculated current). Please let me know the reason why.

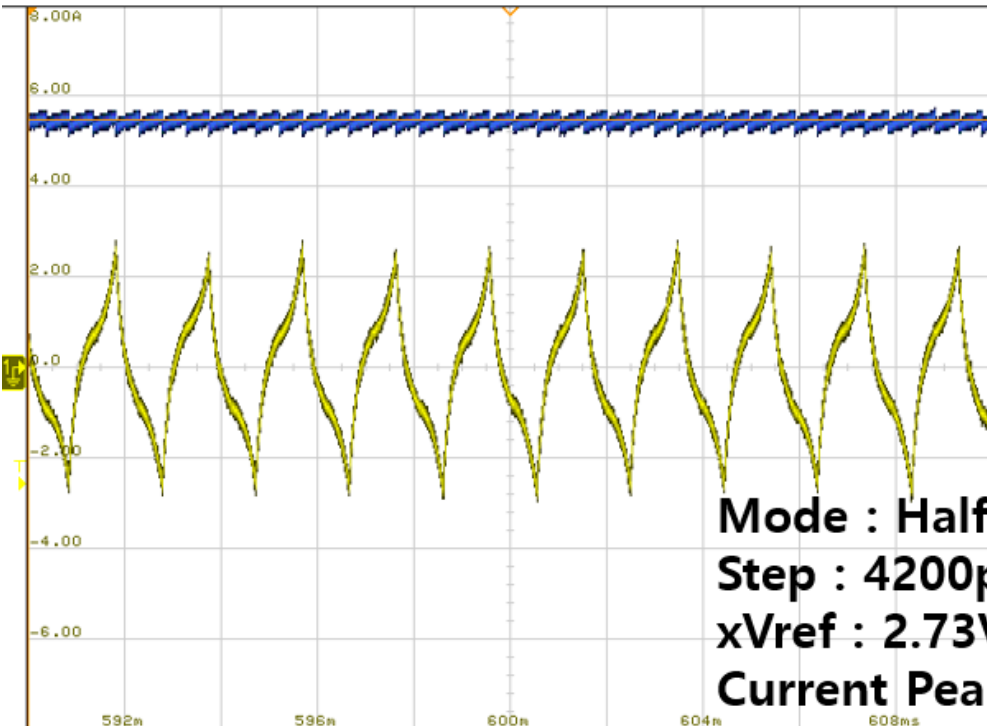
1 2.00A/ 0.0A 2 3 1.00V/ 0.0V 4 H 1.000ms/ 600.0ms T 1 -2.55A 정지



측정
피크-피크(1): 8.10A
최대(1): 4.02A
DC RMS FS(3): 2.73V
+
Mode : Half Step
Step : 1000pps
xVref : 2.73V
Current Peak : 4A

채널 2 메뉴
↑ 커풀링 임피던스 1M Ω BW 제한 Off 미세 반전 프로브 ↓

1 2.00A/ 0.0A 2 3 1.00V/ 0.0V 4 H 2.000ms/ 600.0ms T 1 -2.55A 정지



측정
피크-피크(1): 5.76A
최대(1): 2.81A
DC RMS FS(3): 2.73V
+
Mode : Half Step
Step : 4200pps
xVref : 2.73V
Current Peak : 2.8A

채널 2 메뉴
↑ 커풀링 임피던스 1M Ω BW 제한 Off 미세 반전 프로브 ↓