

# Test Procedure for the NCP383LMUAJAGEVB Evaluation Board

This test procedure is given as an example for 800mA OCP version and EN active high.

## **Equipments needed:**

- Power supply 5V, 3A.
- 1 potentiometer  $100\Omega$ , 10W.
- 1 oscilloscope with 3 voltage probe and 1 current probe.

#### Set-up

- VCC = 5V
- VIN=3.3V
- Device disable, EN=5V with ENABLE H/ENABLE L switch.
- Connect R3, R4 to VCC (Flag pull-up) with FLAG1&FLAG2 PULL UP jumper.
- Connect potentiometer between **OUT1 or OUT2** and **GND** pin.

#### Turn-on sequence

• Enable device, EN=0V with **ENABLE H/ENABLE L** switch.

### Over current protection

- Sense IN (Yellow), OUT (Blue), FLAG (Green) voltage and IOUT (Purple).
- Enable device, EN=5V with **ENABLE H/ENABLE L** switch.
- Decrease resistance value of the potentiometer until FLAG goes to 0V.

#### Regulation mode

- Sense IN (Yellow), OUT (Blue), FLAG (Green) voltage and IOUT (Purple).
- Enable device, EN=5V with ENABLE H/ENABLE L switch.
- Decrease resistance value of the potentiometer until regulation mode occurs.

#### Turn off

- Disable device, EN1&2=5V with **ENABLE H/ENABLE L** switch.
- Remove Vin voltage
- Remove Vcc voltage



Symbol	Switch Description	
POWER TEST POINT		
IN	Input voltage	
OUT1	Output voltage 1	
OUT2	Output voltage 2	
VCC	External supply voltage, connected to FLAG1&2 pin through R3&R4	
GND	Ground plane	
SIGNAL TEST POINT		
FLAG1	Flag pin of the output 1	
FLAG2	Flag pin of the output 2	
EN1	Enable pin of the output 1	
EN2	Enable pin of the output 2	
SET-UP		
ENABLE L ENABLE H	Enable active low:  Device enable → □  Device disable → □	
FLAG1 PULL UP	-To connect R3 to VCC, connect a shorting jumper on left: -To connect R3 to Vin, connect a shorting jumper on right:	
FLAG1 PULL UP	-To connect R4 to Vin, connect a shorting jumper on left: -To connect R4 to VCC, connect a shorting jumper on right:	
CURRENT LIMIT	-Connect a shorting jumper to short circuit R6 (or R5, R7 for additional options)Do not connect a shorting jumper to take R6 into account	
BOARD MARKING		

PART NUMBER	Device Marking, please refer to NCP383 specification
CURRENT LIMIT	Adjustable
ENABLE	Active low