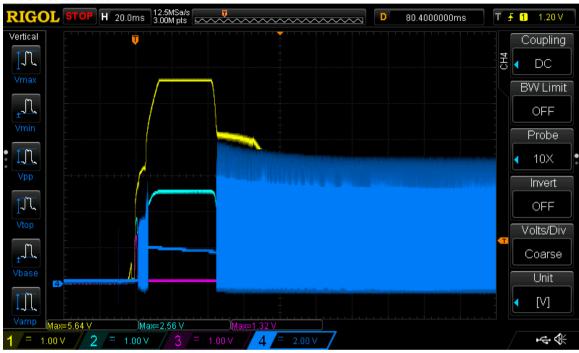
# TL1451 Switching Startup Scope Captures

Wednesday, November 18, 2015 11:01 AM

# 2K resistors into TL1451 pin 4/5

Channel 1 LM6144 Pin 8 Channel 2: TL1451 pin 4/5 Channel 3 LM6144 pin 7 Channel 4: VSwitch

### 1: 0C into 3.3Vout



### 2: 0C into 50mA load



#### 3: 0C into 3.3Vout



# 2K resistors into TL1451 pin 3

Channel 1 LM6144 Pin 8 Channel 2: TL1451 pin 3 Channel 3 LM6144 pin 7 Channel 4: VSwitch

### 4: 0C int0 3.3Vout load



5: 0C into 50mA load



6: -60C into 3.3Vout load (no start)



7: -60C into 50mA load



## 8: -60C into 3.3Vout load (zoomed) no start



# 2K resistors into TL1451 pin 3

Channel 1 LM6144 Pin 8 Channel 2: TL1451 pin 3 Channel 3 LM6144 pin 7 Channel 4: Pin 5 of LT4413

9: -60C into 3.3Vout load (no start)



## 10: -60C into 50mA load



# 2K resistors into TL1451 pin 3, Ideal diode IN/OUT shorted

Channel 1 LM6144 Pin 8 Channel 2: TL1451 pin 3 Channel 3 LM6144 pin 7 Channel 4: Pin 5 of LT4413

11: -60C into 50mA load



## 12: -60C into 3.3Vout load



### Conclusion

Does not look like the ideal diode or 2.5V reference (not scope captured)