

This resistor or probably zener allows the Vin to be 6V+. Without it the LED voltage is too low.

R2
10 or 20

TP2

ZENER (2.1 to 2.7)
D1

TP3

This is the back light I am at 100ma (5 x 20) and it voltage is 4.2 (4 to 4.4).

TP1

U?
LM3432B

24 VIN
1 VCC
2 IREF
7 MODE
3 AGND
22 PGND
25 ThermalPad

4 CDHC
5 VDHC
9 FAULTb
10 OTMb
11 NC
14 NC
16 NC
18 NC
21 NC
23 NC

20 IOUT1
19 IOUT2
17 IOUT3
15 IOUT4
13 IOUT5
12 IOUT6
8 DIM
6 EN

C2
1uF, 25V
C1
1uF
54.9K R23

P1-40; OC2/RD1; 0-3.3V; PWM_IN

P1-8; GPIO4 - SSD1926; 0-3.3V; Backlight Enable

These inputs are working but do not affect the LM3432B. Even if the enable pin goes high the LED stays on. That is my "real" clue that for some reason the LM3432B is not in control or operating correctly. I am also guessing that the PWM "frequency" must have a "minimum" or it is ignored. Regardless my first concern is to see the chip actually "control" the current.

This resistor or probably zener allows the V_{in} to be 6V+. Without it the LED voltage is too low.

This is the back light I am trying to drive at 100ma (5 x 20) and its specified voltage is 4.2 (4 to 4.4).

This voltage is never above about 0.025 volts. Even if R1 is shorted out (and my LED current becomes too high).

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