



優潔光科技
UJ Light Technologies

SPECIFICATIONS FOR LCD MODULE

Model No:

UTF068A-ASN\$

UJ Light Technologies Corporation

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1. General Specification

Item	Specification	Unit
Screen Size(inch)	6.8"	
Display Mode	Normally Black	
Viewing Direction	ALL	O' Clock
Display Color	16.7M	
Display Resolution	800(H)*RGB*480(V)	pixels
Outline Dimension	156.1(H)*100.91(V)*5.5(D)	mm
Active Area(A.A)	148.10*(H)*88.86(V)	mm
Pixel pitch	0.06171(H)*0.18513(V)	mm
Pixel Arrangement	R.G.B. Vertical Stripe	
Surface coating	AG	
Interface	RGB	

2. Absolute Maximum Rating

Item	Symbol	Min.	Max.	Unit
Power Supply Voltage	VDD	-0.3	4.0	V
IO Supply Voltage	VDDI	-0.3	4.0	V
Charge Pump Supply Voltage	PVDD	-0.3	4.0	V
Logic input voltage	VIH	-0.3	VDDI+0.3	V
Logic output voltage	VOOUT	-0.3	VDDI+0.3	V
Operating Temperature	TOP	-30	80	°C
Storage Temperature	TST	-35	85	°C

3. Electrical Characteristics

3.1 TFT LCD Electrical Characteristics

Recommended Operating Range

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	VDD	3.1	3.3	3.6	V
IO Supply Voltage	VDDI	3.1	3.3	3.6	V
Charge Pump Supply Voltage	PVDD	3.1	3.3	3.6	V

DC Characteristics for Digital Circuit

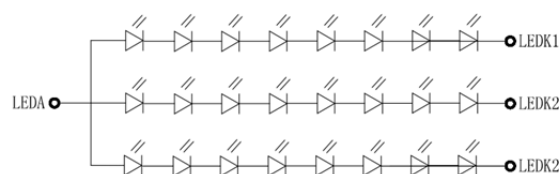
Item	Symbol	Min.	Typ.	Max.	Unit
Logic Low input voltage	VIL	DGND	-	0.3VDDI	V
Logic High input voltage	VIH	0.7VDDI	-	VCI	V
Logic Low output voltage	VOL	DGND	-	DGND+0.4	V
Logic High output voltage	VOH	VDDI-0.4	-	VDDI	V

DC Characteristics for Analog Circuit

Item	Symbol	Min.	Typ.	Max.	Unit
Positive High Voltage Power	VGHS	9	15	17	V
Negative High Voltage Power	VGL	-11.5	-10.5	-7	V
Output voltage Deviation	VOD	-	±40	±50	mV
Standby Current	ISC	-	-	50	uA
Operation Current	IOC	-	40	-	mV

3.2 BackLight Characeristics

Item	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	VF	22.4	24	26.4	V
Forward Current	IF	-	150	-	mA
LED lifetime	-	-	20000	-	Hr



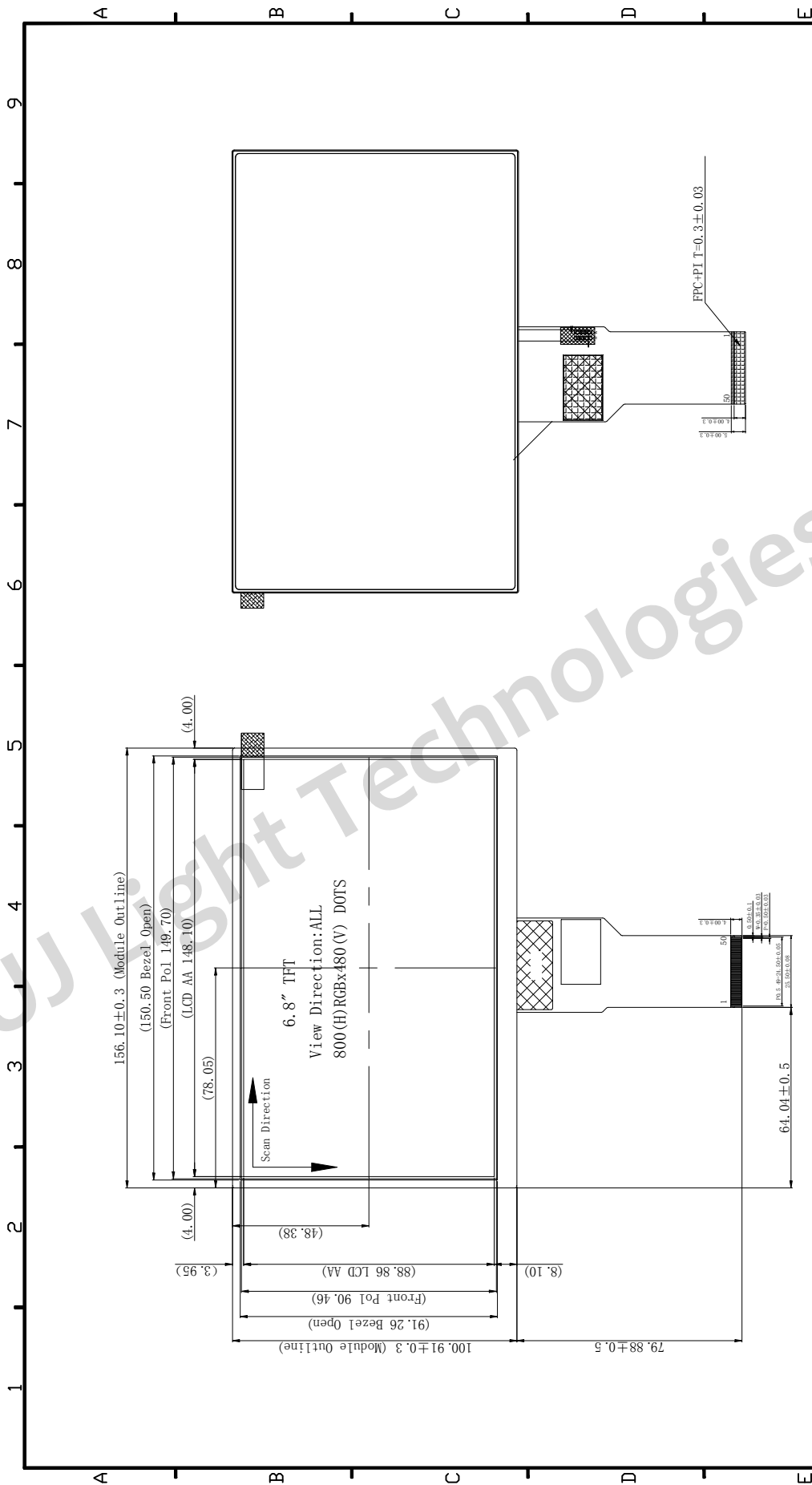
LED CIRCUIT DIAGRAM
Vf=24V (TYP), IF=150mA

4. Interface Pin Function

Pin NO.	Symbol	Description
1	VLED+	Power for LED backlight(Anode)
2	VLED+	Power for LED backlight(Anode)
3	VLED-	Power for LED backlight(Cathode)
4	VLED-	Power for LED backlight(Cathode)
5	GND	Powerground
6	VCOM	Commonvoltage
7	DVDD	Power for DigitalCircuit
8	MODE	DE/SYNC modeselect
9	DE	Data InputEnable
10	VS	Vertical SyncInput
11	HS	Horizontal SyncInput
12	B7	Bluedata(MSB)
13	B6	Bluedata
14	B5	Bluedata
15	B4	Bluedata
16	B3	Bluedata
17	B2	Bluedata
18	B1	Bluedata
19	B0	Bluedata(LSB)
20	G7	Greendata(MSB)
21	G6	Greendata
22	G5	Greendata
23	G4	Greendata
24	G3	Greendata
25	G2	Greendata
26	G1	Greendata
27	G0	Greendata(LSB)
28	R7	Reddata(MSB)
29	R6	Reddata
30	R5	Reddata
31	R4	Reddata
32	R3	Reddata
33	R2	Reddata
34	R1	Reddata
35	R0	Reddata(LSB)

36	GND	Power Ground
37	DCLK	Sample clock
38	GND	Power Ground
39	L/R	Left / rightselection
40	U/D	Up/downselection
41	VGH	Gate ON Voltage
42	VGL	Gate OFF Voltage
43	AVDD	Power for Analog Circuit
44	RESET	Global resetpin.
45	NC	No connection
46	VCOM	Common Voltage
47	DITHB	Dithering function
48	GND	PowerGround
49	NC	No connection
50	NC	No connection

5. Drawing



The non-specified tolerance of dimension is ± 0.3 mm

[illegible]