



優潔光科技
UJ Light Technologies

SPECIFICATIONS FOR LCD MODULE

Model No:

UTF035D-BAN\$

UJ Light Technologies Corporation

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1. General Specification

Parameter	Value	Unit
LCD Mode	a-Si TFT/transmissive	-
Screen Size(inch)	3.5"	
Display Mode	Normally Black	-
Viewing Direction	ALL	-
Color	16.7M	-
Display Resolution	320*3(RGB)*480	pixels
Outline Dimension	54.94(W) *83.8(H) *2.2(T)	mm
Active Area(A.A)	48.96(H) *73.44(V)	mm
Pixel pitch	0.153(H) x 0.153(V)	mm
Pixel Arrangement	RGB-stripe	-
Driver IC	ILI9488	
Interface	3Wire SPI+24RGB	

2. Absolute Maximum Rating

Item	Symbol	Min.	Max.	Unit
Supply voltage(Analog)	VCC	-0.3	3.3	V
Supply voltage (I/O)	IOVCC	-0.3	3.3	V
Logic input voltage range	VIN	-0.3	IOVCC+0.3	V
Operating Temperature	TOP	-10	60	°C
Storage Temperature	TST	-30	70	°C

3. Electrical Characteristics

3.1 TFT LCD Electrical Characteristics

Item	Symbol	Min	Typ	Max	Unit
Power Supply Voltage	VCC	2.5	2.8	3.3	V
	IOVCC	1.65	1.8	3.3	V
	VGH	10	12	14	V
	VGL	-14	-12	-10	V
	VCOM	-2.0	-	0	V
Input Signal Voltage	VIH	0.7IOVCC	-	IOVCC	V
	VIL	-0.3	-	0.3IOVCC	V

3.2 BackLight Characteristics

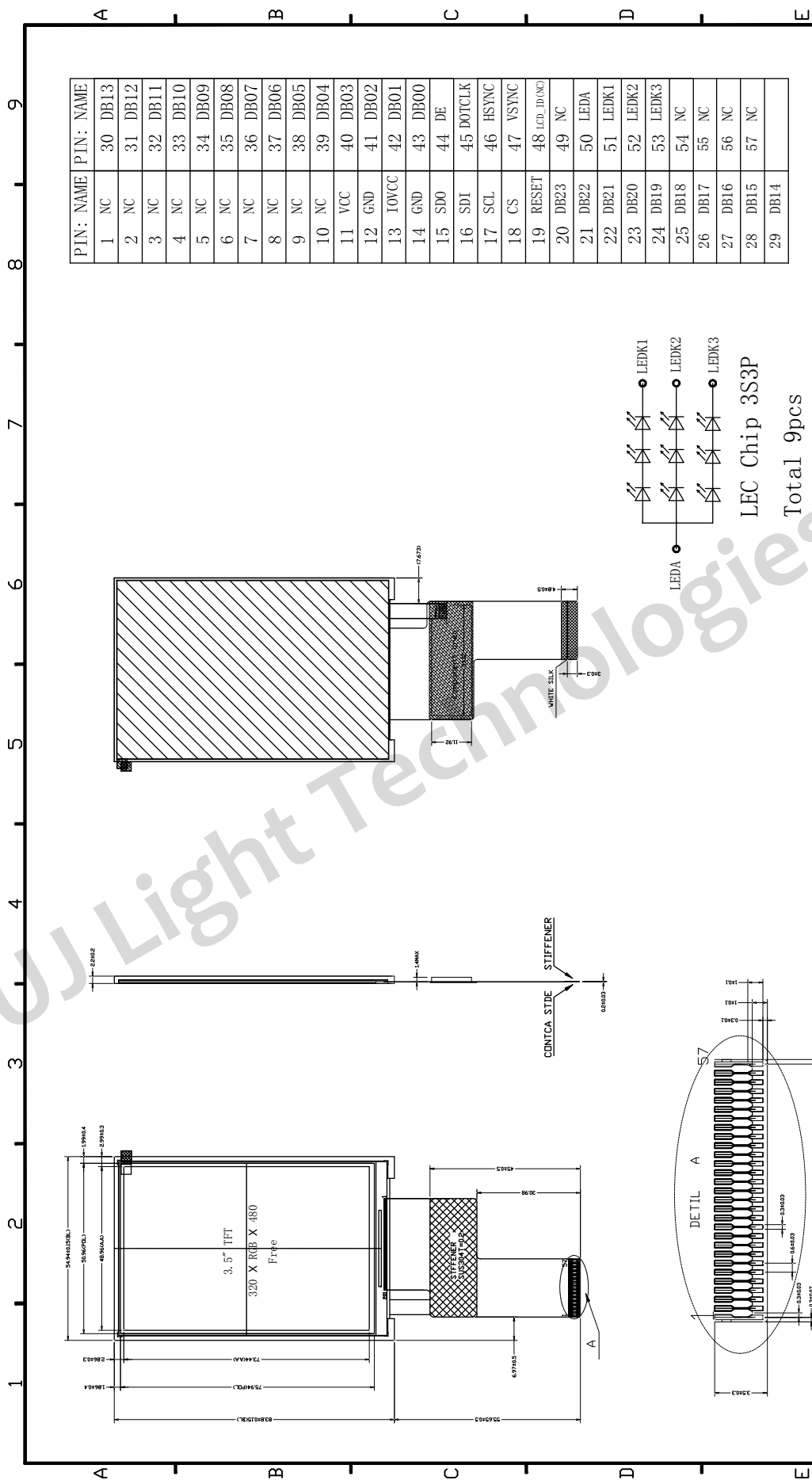
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	VF	Only Backlight	8.4	9.0	9.9	V
Supply Current	IF		60			mA
Average Brightness	IV	Backlight Current IF=60mA	700	760	-	cd/m2
CIE Color Coordinate	X	Backlight Current IF=60mA	0.269	0.319	0.369	-
	Y		0.316	0.366	0.416	
Uniformity	B	Backlight Current IF=60mA	80	-	-	(%)
Life Time	-	IF=60mA; Ta=25°C; 50% decay of original luminance	-	50000	-	Hr
Color	White					

4. Interface Pin Function

Pin NO.	Symbol	Description
1-10	NC	No connection
11	VCC	Power supply (2.8V)
12	GND	Power ground
13	IOVCC	Power supply (1.8V)
14	GND	Power ground
15	SDO	Serial data output
16	SDI	Serial data input/output bi-direction pin
17	SCL	Serial Clock
18	CS	Chip select input pin
19	RESET	Reset signal
20-27	DB23-DB16	Red data
28-35	DB15-DB8	Green data
36-43	DB7-DB0	Blue data
44	DE	A data enable input signal
45	DOTCLK	Dot clock signal
46	HSYNC	Line synchronizing signal
47	VSYNC	Frame synchronizing signal
48	LCD-ID	No connection
49	NC	No connection
50	LEDA	LED Anode
51	LEDK1	LED Cathode
52	LEDK2	LED Cathode
53	LEDK3	LED Cathode
54-57	NC	No connection



5. Drawing



Circuit Diagram

The non-specified tolerance of dimension is ± 0.3 mm

TOLERANCE UNLESS OTHERWISE SPEC.		NO. REV.		DESCRIPTION		LOCA		DRAW		DATE		PART_NAME		TITLE	
F	G	H	J	K	L										
~ 8	'05	'01	'02	'03	'04										
8 ~ 25	'08	'05	'05	'03	'06										
25 ~ 80	'12	'02	'025	'04	'08										
80 ~ 250	'25	'03	'04	'06	'12										
250~	'05	'06	'08	'10	'20										

APPROVAL / DATE		VERSION		UNIT		SCALE		SHEET		OF	
CHECK / DATE		DRAW / DATE		m m		1/1		1		1	

UJ LIGHT

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