



2.0 BLOCK DIAGRAM & POWER SUPPLY



背光电路图CIRCUIT DIAGRAM(LED SMD 4 X 1 = 1 dies)

3.0 MECHANICAL SPECIFICATIONS & FEATURE

Item	Nominal Dimensions (mm)	Feature	
		Active Screen Size	2.4" Diagonal
Module Size(W*H*T)	42.72×59.46×2.45	Resolution	240 (RGB) ×320
Active Area(W*H)	36.72 × 48.96	View Angle	6 0'clock
Dot × Dot (W*H)	240 (RGB) × 320	Pixel Driving Element	α-Si TFT
Dot Pitch (W*H)	---	Pixel Arrangement	RGB Vertical Stripe
Dot Size (W*H)	0.153 × 0.153	Driving IC	IL19340
---	---	Operating Temperature	-20° C to +70° C
---	---	Storage Temperature	-30° C to +80° C

4.0 ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Supply Voltage	VDD1 (1OVCC)	Based On IL19340 Ta=25° C	1.65	---	3.3	V
Analog Supply Voltage	VCI	Based On IL19340 Ta=25° C	2.5	---	4.8	V
Supply Voltage & Analog Supply Voltage	VDD1 (1OVCC) & VCI	Based On IL19340 Ta=25° C	2.5	---	3.3	V
TFT Gate ON Voltage	VGH	Based On IL19340 Ta=25° C	9.0	15.0	16.5	V
TFT Gate Off Voltage	VGL	Based On IL19340 Ta=25° C	-6.0	-10.0	-13.5	V
TFT Common Electrode Voltage	VcomH	Based On IL19340 Ta=25° C	2.5	---	5.8	V
	VcomL	Based On IL19340 Ta=25° C	-2.5	---	0	V

5.0 INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Level	Description
1	VSS	OV	LCM Power Supply Ground Input Terminal
2-3	NC	---	Not Connected
4	SDO	---	Serial output signal.The data is outputted on the falling edge of the SCL signal. If not used, open this pin
5	SDI	---	When IM[3] : Low, Serial in/out signal.When IM[3] : High, Serial input signal. The data is applied on the rising edge of the SCL signal.If not used, fix this pin at VDD1 or VSS.
6	VSS	OV	LCM Power Supply Ground Input Terminal
7	NC	---	Not Connected
8	IM3	---	See IL19340/IL19341 datasheet for detail
9	IM2	---	
10	IM1	---	
11	IMO	---	
12	/RES	H→L, H	
13	DB9	---	Data Bus DB9 Input Terminal
14	DB0	---	Data Bus DB0 Input Terminal
15-22	DB17-DB10	---	Data Bus DB17-DB10 Input Terminal
23-30	DB8-DB1	---	Data Bus DB8-DB1 Input Terminal
31	/RD	L	LCM Read Signal Input Terminal
32	/WR/(D/CX)	L	LCM Write Signal Input Terminal(8080-I&8080II);D/CX(4-Line SPI)
33	RS (D/CX)/(SCL)	H/L	LCM Data/Command Selection Terminal(8080I&8080II);SCL Terminal(4-Line SPI)
34	NCS	L	LCM selection pin for serial interface;internal pull high
35	VSS	OV	LCM Power Supply Ground Input Terminal
36	VDD1 (1OVCC)	1.65V-3.3V	LCM Power Supply (Logic Voltage) Input Terminal
37-38	VCI	2.5V-3.3V	LCM Power Supply (Analog Voltage) Input Terminal
39	LED-K4	OV	LED Backlight Kathode4 Input Terminal
40	LED-K3	OV	LED Backlight Kathode3 Input Terminal
41	LED-K2	OV	LED Backlight Kathode2 Input Terminal
42	LED-K1	OV	LED Backlight Kathode1 Input Terminal
43	A (LED+)	3.2V(Type)	LED Backlight Anode Input Terminal
44	VSS	OV	LCM Power Supply Ground Input Terminal