



RAYSTAR

曜凌光電股份有限公司

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RFC570D-AIW-DNS

SPECIFICATION

General Specifications

- Dot Matrix: 320 x RGBx240(TFT)
- Module dimension: 126.00(W) x 101.55(H) x 7.5(D)(MAX) mm
- Active area: 115.2 x 86.40 mm
- Dot pitch: 0.12 x 0.36 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Backlight Type: LED, Normally White

*Color tone slight changed by temperature and driving voltage.

Interface

LCM PIN Definition

Pin No.	Symbol	I/O	Description
1	IF1	I	Input data format control (Note1)
2	IF2	I	Input data format control (Note1)
3	POL	O	Polarity Signal connect to VCOM driving circuit.
4	RESET	I	Hardware reset.
5	SPENA	I	Chip select
6	SPCL	I	Serial Clock
7	SPDA	I/O	Serial Data
8	B0	I	Blue Data bit (LSB)
9	B1	I	Blue Data bit
10	B2	I	Blue Data bit
11	B3	I	Blue Data bit
12	B4	I	Blue Data bit
13	B5	I	Blue Data bit
14	B6	I	Blue Data bit
15	B7	I	Blue Data bit(MSB)
16	G0	I	Green Data bit(LSB)
17	G1	I	Green Data bit
18	G2	I	Green Data bit
19	G3	I	Green Data bit
20	G4	I	Green Data bit
21	G5	I	Green Data bit
22	G6	I	Green Data bit
23	G7	I	Green Data bit(MSB)
24	R0	I	Red Data bit(LSB)
25	R1	I	Red Data bit
26	R2	I	Red Data bit
27	R3	I	Red Data bit
28	R4	I	Red Data bit
29	R5	I	Red Data bit
30	R6	I	Red Data bit
31	R7	I	Red Data bit(MSB)
32	Hsync	I	Horizontal synchronous signal
33	Vsync	I	Vertical synchronous signal
34	Data CLK	I	Dot data clock
35	AVDD	I	Analog power: 4.5V~5.5V
36	AVDD	I	Analog power: 4.5V~5.5V
37	Vcc	I	Digital power: 3V~3.6V
38	Vcc	I	Digital power: 3V~3.6V
39	NPC	O	NTSC/PAL mode Auto detection result H:NTSC/L:PAL
40	VGL	I	Gate off power
41	VGL	I	Gate off power
42	UD	I	Up/Down scan setting. H: Reverse scan / L: Normal scan
43	VGH	I	Gate on power

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	°C
Storage Temperature	T_{ST}	-30	—	+80	°C
Power Supply Voltage	V_{GH}	-0.3	—	32.0	V
	V_{GL}	-22	—	0.3	V
	$V_{GH} - V_{GL}$	-0.3	—	+45	V

Electrical Characteristics

Operating conditions

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	VCC	—	3.0	3.3	3.6	V
Input High Volt.	V_{IH}	—	0.7 VCC	—	VCC	V
Input Low Volt.	V_{IL}	—	0	—	0.3 VCC	V
LCD Driving Supply Voltage	$V_{GH} *1$	$T_a=25^{\circ}C$		15		V*3
	$V_{GL} *2$			-10		
	VcomH		2.5		5.5	
	VcomL		-2.0		0	
Supply Current	I_{VCC}	VCC=3.3V	—	5	8	mA

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current		-	140	-	mA
Power Consumption			1365	1470	mW
LED voltage	VBL+	9.0	-	10.5	V
LED Life Time		-	50,000	-	Hr

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