



ANDpSi08C351-HB

8.4" SVGA Color p-Si TFT LCD Module

The ANDpSi08C351-HB is 800 x 600 Color TFT display that utilizes new poly-silicon (p-Si) technology to provide a brighter, thinner and lighter display with high-resolution. The p-Si TFT technology allows the row and column LCD drivers to be fabricated directly on the LCD glass. This eliminates the need for discrete TAB drivers. Wide viewing angle technology provides excellent images from all directions. The dual tube CCFL backlight offers a very bright display with extended operating life. This makes it ideal for computer, instrumentation, medical or industrial applications.

Features

- p-Si construction with drivers on glass
- Wide viewing angle ($\pm 45^\circ$ at CR> 30)
- High luminance, long life backlight (50,000 hours)
- Dual CCFL backlight
- Clear 256K colors (K=1024)
- Thin and lightweight design
- SVGA (800 x 600 pixels color display)
- Applications: Display Terminals; Scientific, Medical, Test & Measurement Instruments; Office Automation Equipment

Mechanical Characteristics

Item	Specification	Unit
Outline Dimensions	199.5 (H) x 149.5 (V) x 12.0 max (D)	mm
Number of Pixels	800 (H) x 600 (V)	pixels
Active Area	170.4 (H) x 127.8 (V)	mm
Pixel Pitch	0.213 (H) x 0.213 (V)	mm
Weight (approx.)	395	gram
Backlight	CCFL, Side-light type (2 lamps)	—

Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit
Supply Voltage	V_{DD}	-0.3	4.5	V
	V_{FL}	0	2000	Vrms
FL Driving Frequency	f_{FL}	0	100	kHz
Input Signal Voltage	V_{IN}	-0.3	$V_{DD} + 0.3$	V
Operating Temperature	T_{op}	0	50	$^\circ\text{C}$
Storage Temperature	T_{stg}	-20	60	$^\circ\text{C}$
Humidity (Max. Wet bulb temp = 29 $^\circ\text{C}$)	—	10	90	% RH

Electrical Characteristics (Ta = 25 $^\circ\text{C}$)

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage ($I_{FL}=6\text{mA}$)	V_{DD}	3.0	3.3	3.6	V
	V_{FL}	480	530	580	Vrms
FL Start Voltage ($T_a = 0^\circ\text{C}$)	—	1400	—	1600	Vrms
High Level Input Voltage	V_{IH}	0.8	—	V_{DD}	V
Low Level Input Voltage	V_{IL}	0	—	0.2	V
Current Consumption	I_{DD}	—	240	—	mA
	I_{FL}	3.0	—	6.0	mA
Power Consumption (*1)	P	—	7.2	—	W

*1: Before the efficiency loss of CCFL inverter, $I_{FL}=6\text{mA}$

Optical Characteristics (Ta = 25 $^\circ\text{C}$)

Item	Symbol	Min.	Typ.	Max.	Unit
Contrast	CR	100	250	—	—
Response	t_{on}	—	—	50	ms
	t_{off}	—	—	50	ms
Luminance ($I_{FL}=6\text{mA}$)	L	280	350	—	cd/m^2
Viewing Angle (CR>30)	fL/ fR	40/40	45/45	—	deg
	fU/ fD	45/45	50/50	—	deg



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	I_{FL}	3.0	—	6.0	mAmps
Power Consumption (*1)	P	—	7.2	—	W

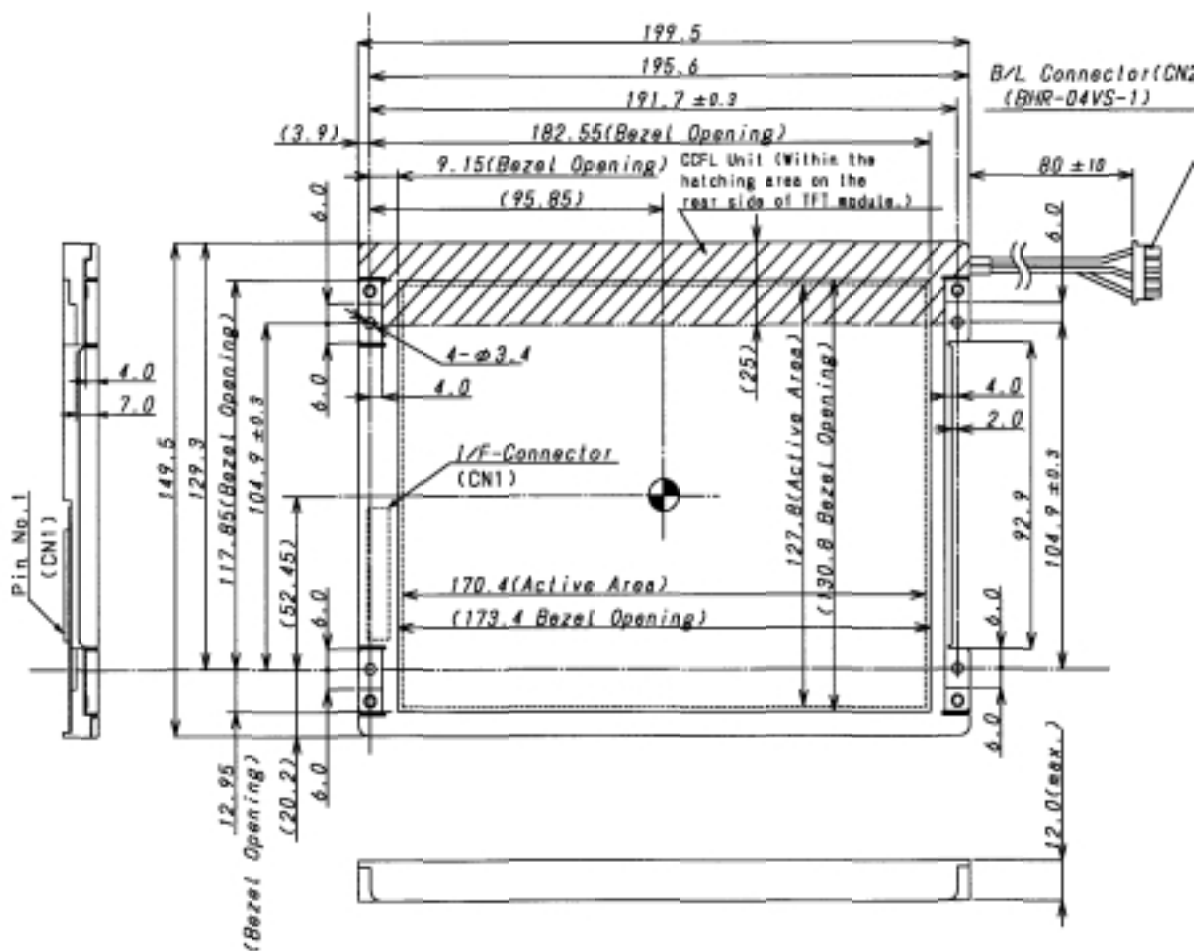
*1: Before the efficiency loss of CCFL inverter, $I_{FL}=6\text{mA}$

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Item	Symbol	Min.	Typ.	Max.	Unit
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Response	t_{on}	—	—	50	ms
	t_{off}	—	—	50	ms
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Viewing Angle (CR>30)	fL/ fR	40/40	45/45	—	deg
	fU/ fD	45/45	50/50	—	deg

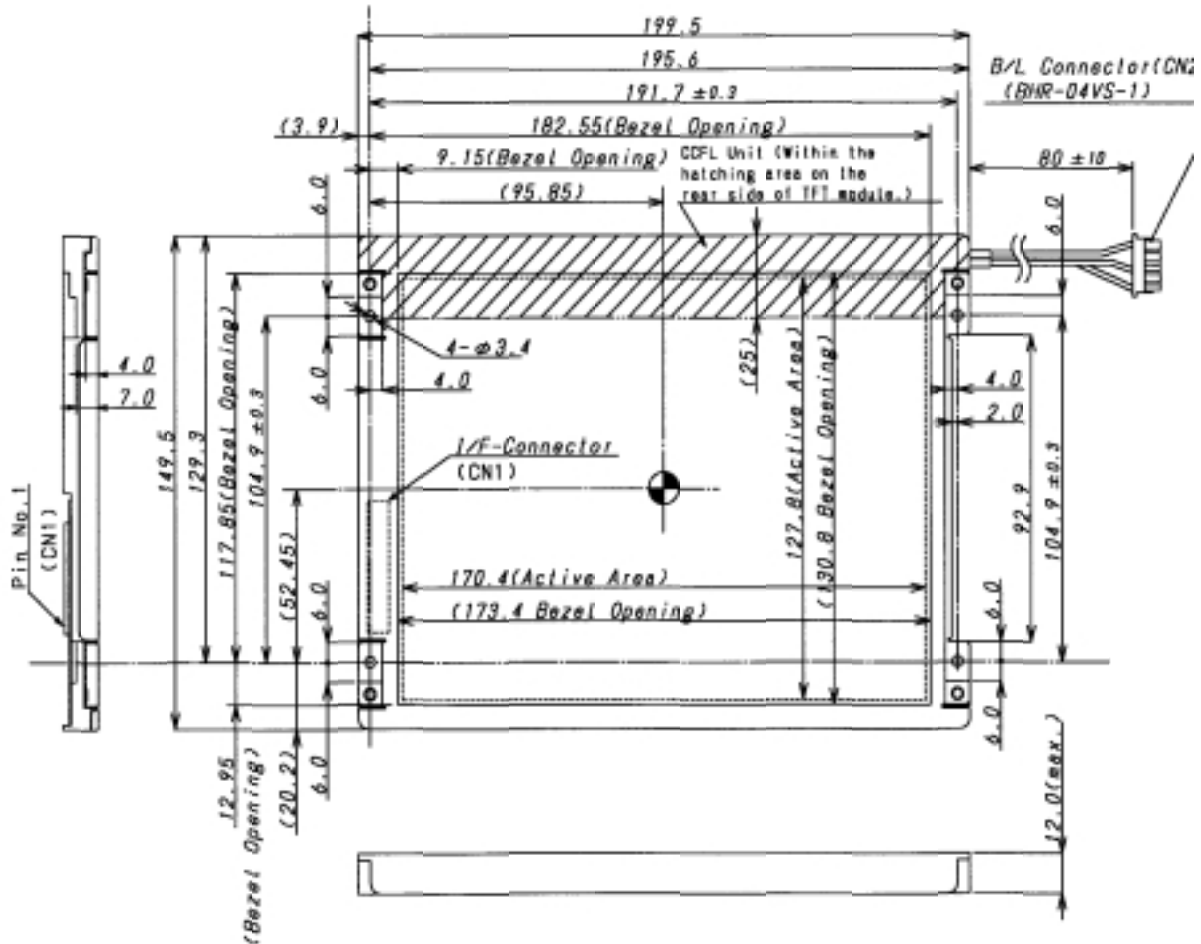
Dimensional Outline

Unit: mm
Standard Tolerance: 0.5mm



Dimensional Outline

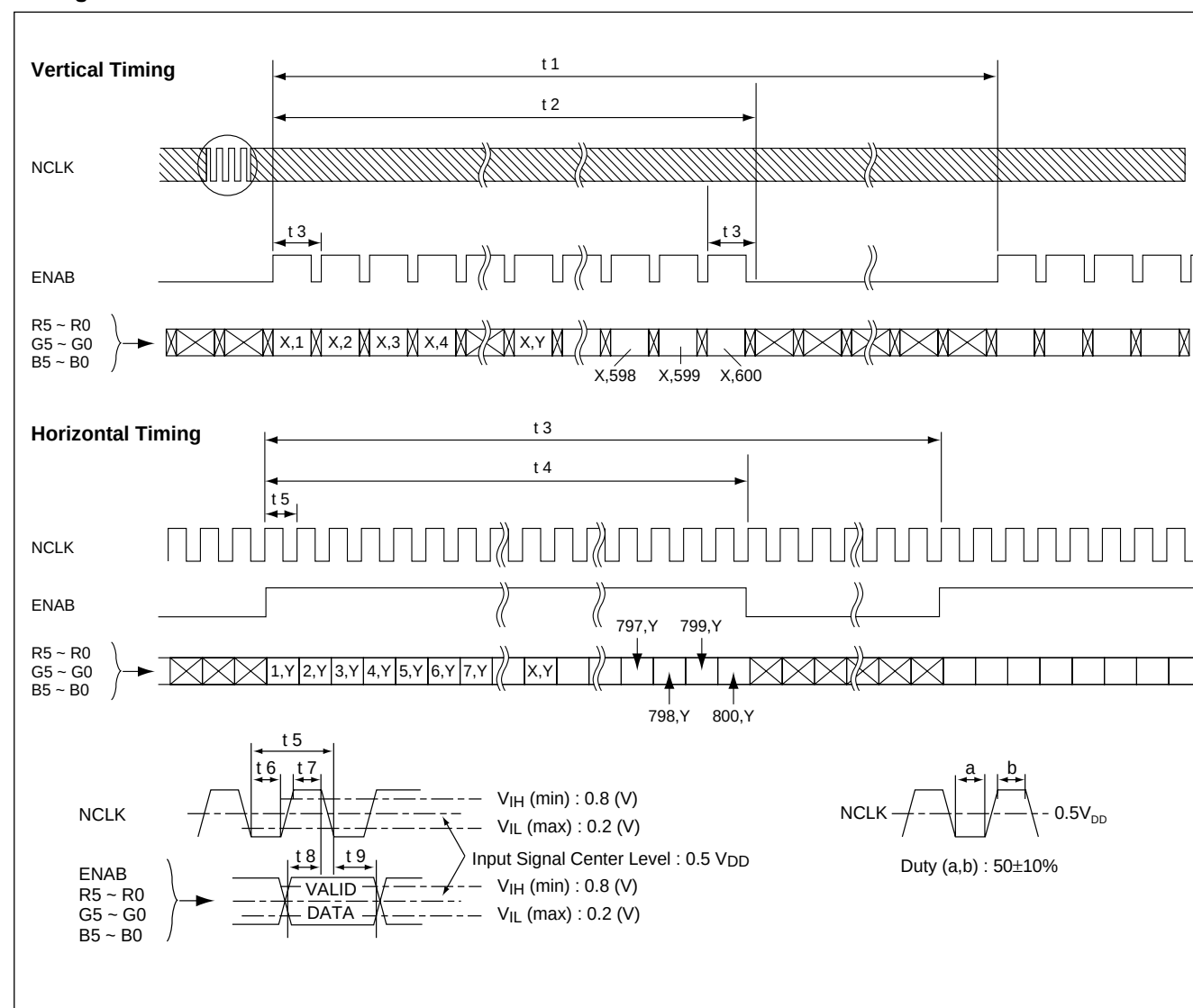
Unit: mm
Standard Tolerance: 0.5mm



Timing Specifications

Item	Symbol	Min	Typ	Max	Unit
Frame Period	t1	604 x t3 —	625 x t3 17.78	628 x t3 17.86	— ms
Vertical Display Term	t2	600 x t3	600 x t3	600 x t3	t2 = N • t3
One Line Scanning Time	t3	944 x t5 (26.3)	1056 x t5 26.4	1064 x t5	— μs
Horizontal Display Period	t4	800 x t5	800 x t5	800 x t5	—
Clock Period	t5	24.7	25.0	27.8	ns
Clock “L” Time	t6	9.0	—	—	ns
Clock “H” Time	t7	9.0	—	—	ns
Set Up Time	t8	4.0	—	—	ns
Hold Time	t9	5.0	—	—	ns

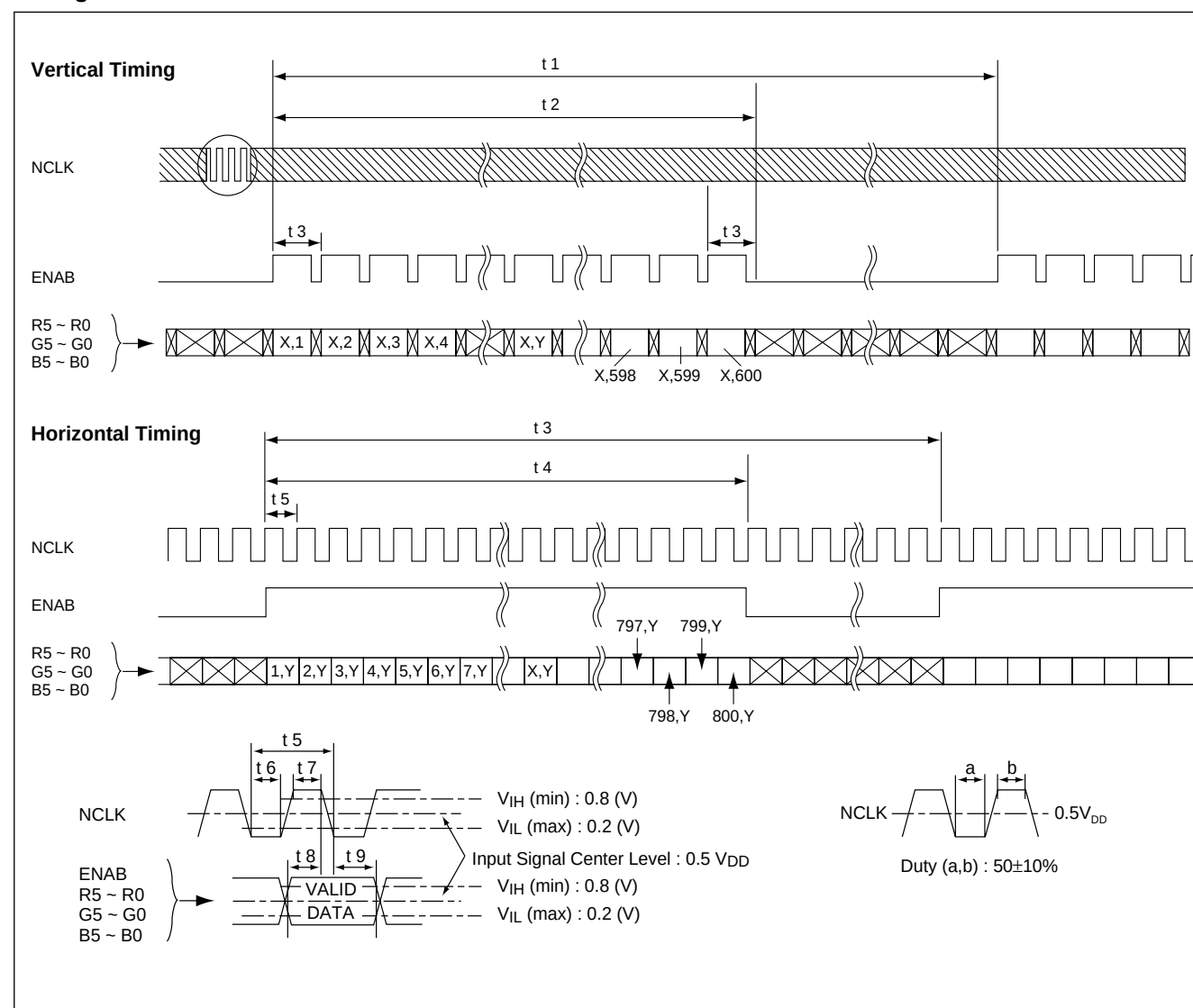
Timing Chart



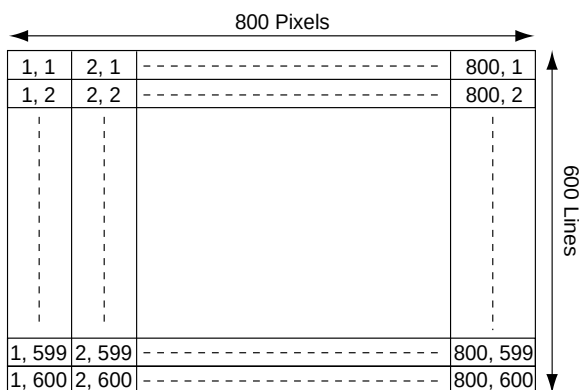
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Timing Chart

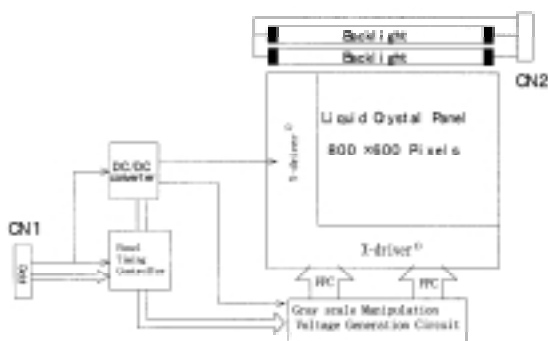


Connector Pin Assignment for Interface



Recommended Inverter: INV8m122325 (12VDC Input)

Block Diagram



1) Drivers are fabricated on the LCD glass

2) Connectors

CN1-DF19G-30P-1H/Hirose Electric Co.
Mating Connector - DF19G-30S-1C (Housing)

CN2-BHR-04VS-1/Japan Solderless Terminal Co., Ltd.
Mating Connector - SM04(4.0)B-BHS-1-TB/JST

CN1 Input Signal (1)

(DF19G-30P-1H/Hirose Electric Co.)

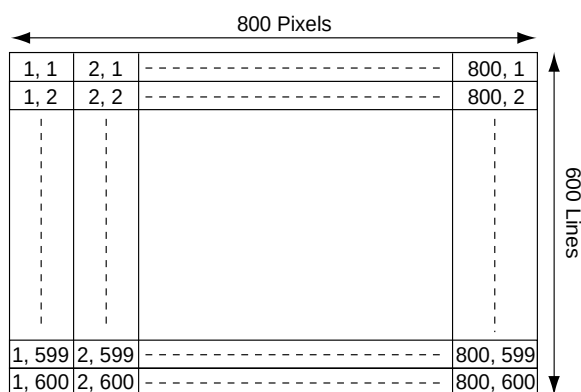
Terminal No.	Symbol	Function
1	GND	Ground
2	VDD	+3.3V Power Supply
3	VDD	+3.3V Power Supply
4	GND	Ground
5	ENAB	Compound Synchronization Signal
6	B5 ⁽²⁾	Blue Display Data (MSB)
7	B4 ⁽²⁾	Blue Display Data
8	B3 ⁽²⁾	Blue Display Data
9	B2 ⁽²⁾	Blue Display Data
10	B1 ⁽²⁾	Blue Display Data
11	B0 ⁽²⁾	Blue Display Data (LSB)
12	GND	Ground
13	G5 ⁽²⁾	Green Display Data (MSB)
14	G4 ⁽²⁾	Green Display Data
15	G3 ⁽²⁾	Green Display Data
16	G2 ⁽²⁾	Green Display Data
17	G1 ⁽²⁾	Green Display Data
18	G0 ⁽²⁾	Green Display Data (LSB)
19	GND	Ground
20	R5 ⁽²⁾	Red Display Data (MSB)
21	R4 ⁽²⁾	Red Display Data
22	R3 ⁽²⁾	Red Display Data
23	R2 ⁽²⁾	Red Display Data
24	R1 ⁽²⁾	Red Display Data
25	R0 ⁽²⁾	Red Display Data (LSB)
26	GND	Ground
27	NC	No Connect
28	NC	No Connect
29	NCLK	Sampling Clock
30	GND	Ground

CN2 CCFL Power Source

(BHR-04VS-1/Japan Solderless Terminal Mfg Co., Ltd.)

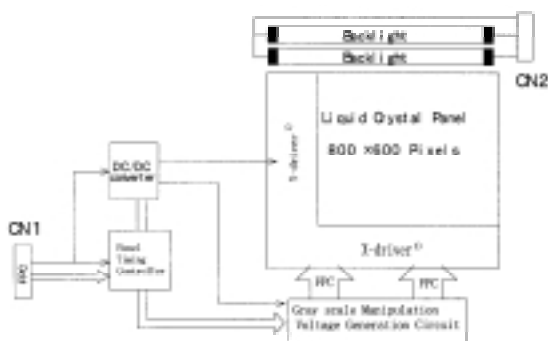
Terminal No.	Symbol	Function
1	VL	CCFL Power Supply (High Voltage)
2	VL	CCFL Power Supply (High Voltage)
3	NC ⁽¹⁾	—
4	GL	CCFL Power Supply (GND Side)

Note (1) NC terminal is open.



Recommended Inverter: INV8m122325 (12VDC Input)

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11		B0 ⁽²⁾	Blue Display Data (LSB)
	12	GND	Ground
13		G5 ⁽²⁾	Green Display Data (MSB)
	14	G4 ⁽²⁾	Green Display Data
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	16	G2 ⁽²⁾	Green Display Data
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21		R4 ⁽²⁾	Red Display Data
	22	R3 ⁽²⁾	Red Display Data
23		R2 ⁽²⁾	Red Display Data
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Note (1) NC terminal is open.

Note (2): 256K colors are displayed by the combinations of 18 data bits.

	Display	R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	B4	B3	B2	B1	B0	Gray Scale Level
Basic Color	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	—
	Blue	L	L	L	L	L	L	L	L	L	L	L	L	H	H	H	H	H	H	—
	Green	L	L	L	L	L	L	H	H	H	H	H	H	L	L	L	L	L	L	—
	Lt. Blue	L	L	L	L	L	L	H	H	H	H	H	H	H	H	H	H	H	H	—
	Red	H	H	H	H	H	H	L	L	L	L	L	L	L	L	L	L	L	L	—
	Purple	H	H	H	H	H	H	L	L	L	L	L	L	H	H	H	H	H	H	—
	Yellow	H	H	H	H	H	H	H	H	H	H	H	H	L	L	L	L	L	L	—
	White	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	—
Gray Scale of Red	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L0
	Dark	L	L	L	L	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L1
		L	L	L	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L2
					:					:						:				L3~L60
					:					:						:				
		H	H	H	H	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L61
	Light	H	H	H	H	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L62
	Red	H	H	H	H	H	H	L	L	L	L	L	L	L	L	L	L	L	L	Green L63
Gray Scale of Green	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L0
	Dark	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	L	L	L1
		L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	L	L	L	L2
					:					:						:				L3~L60
					:					:						:				
		L	L	L	L	L	L	H	H	H	H	L	H	L	L	L	L	L	L	L61
	Light	L	L	L	L	L	L	H	H	H	H	H	L	L	L	L	L	L	L	L62
	Green	L	L	L	L	L	L	H	H	H	H	H	H	L	L	L	L	L	L	Green L63
Gray Scale of Blue	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L0
	Dark	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L1
		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L2
					:					:						:				L3~L60
					:					:						:				
		L	L	L	L	L	L	L	L	L	L	L	L	H	H	H	H	L	H	L61
	Light	L	L	L	L	L	L	L	L	L	L	L	L	H	H	H	H	H	L	L62
	Blue	L	L	L	L	L	L	L	L	L	L	L	L	H	H	H	H	H	H	Blue L63
Gray Scale of White & Black	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L0
	Dark	L	L	L	L	L	H	L	L	L	L	L	H	L	L	L	L	L	H	L1
		L	L	L	L	H	L	L	L	L	H	L	L	L	L	L	H	L	L	L2
					:					:						:				L3~L60
					:					:						:				
		H	H	H	H	L	H	H	H	H	L	H	L	H	H	H	H	L	H	L61
	Light	H	H	H	H	H	L	H	H	H	H	L	L	H	H	H	H	H	L	L62
	White	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	White L63

Note (2): 256K colors are displayed by the combinations of 18 data bits.

	Display	R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	B4	B3	B2	B1	B0	Gray Scale Level	
Basic Color	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	—	
	Blue	L	L	L	L	L	L	L	L	L	L	L	L	H	H	H	H	H	H	—	
	Green	L	L	L	L	L	L	H	H	H	H	H	H	L	L	L	L	L	L	—	
	Lt. Blue	L	L	L	L	L	L	H	H	H	H	H	H	H	H	H	H	H	H	—	
	Red	H	H	H	H	H	H	L	L	L	L	L	L	L	L	L	L	L	L	—	
	Purple	H	H	H	H	H	H	L	L	L	L	L	L	H	H	H	H	H	H	—	
	Yellow	H	H	H	H	H	H	H	H	H	H	H	H	L	L	L	L	L	L	—	
	White	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	—	
Gray Scale of Red	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L0	
	↕	Dark	L	L	L	L	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L1
		L	L	L	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L2
		:						:						:						L3~L60	
		:						:						:							
		H	H	H	H	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L61
		Light	H	H	H	H	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L
	Red	H	H	H	H	H	H	L	L	L	L	L	L	L	L	L	L	L	L	L	Green L63
Gray Scale of Green	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L0	
	↕	Dark	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	L	L	L1
		L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	L	L	L	L2
		:						:						:						L3~L60	
		:						:						:							
		L	L	L	L	L	L	L	H	H	H	H	L	H	L	L	L	L	L	L	L61
		Light	L	L	L	L	L	L	H	H	H	H	H	L	L	L	L	L	L	L	L
	Green	L	L	L	L	L	L	H	H	H	H	H	H	L	L	L	L	L	L	L	Green L63
Gray Scale of Blue	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L0	
	↕	Dark	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L1
		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L2
		:						:						:						L3~L60	
		:						:						:							
		L	L	L	L	L	L	L	L	L	L	L	L	L	H	H	H	H	L	H	L61
		Light	L	L	L	L	L	L	L	L	L	L	L	L	H	H	H	H	H	L	L
	Blue	L	L	L	L	L	L	L	L	L	L	L	L	H	H	H	H	H	H	H	Blue L63
Gray Scale of White & Black	Black	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L0	
	↕	Dark	L	L	L	L	L	H	L	L	L	L	L	H	L	L	L	L	L	H	L1
		L	L	L	L	H	L	L	L	L	L	H	L	L	L	L	L	H	L	L	L2
		:						:						:						L3~L60	
		:						:						:							
		H	H	H	H	L	H	H	H	H	H	L	H	H	H	H	H	L	H	L	L61
		Light	H	H	H	H	H	L	H	H	H	H	H	L	H	H	H	H	H	L	L
	White	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	White L63

Purdy Electronics Corporation —720 Palomar Avenue —Sunnyvale, CA 94086
2001 年 3 月 2 日 : 408.523.8200 》 传真: 408.733.1287 》 email@purdy
1

显示器

ANDpSi08C351-HB

8.4 英寸 SVGA 彩色 p-Si TFT

液晶模组

ANDpSi08C351-HB 是 800 x 600 彩色 TFT 显示屏，

利用新的多晶硅 (p-Si) 技术提供更亮、

更薄、更轻、高分辨率的显示屏。p-Si TFT

技术允许行和列 LCD 驱动器直接在 LCD 玻璃上制造。这消除了对分立 TAB 驱动器。宽视角技术提供从各个方向都能获得出色的图像。双管 CCFL

背光提供非常明亮的显示并延长使用寿命。

这使其成为计算机、仪器、医疗或工业应用。

特征

◆ p-Si 结构，驱动器位于玻璃上宽视角 (CR>30 时 ±45°)

Ø 高亮度、长寿命背光源 (50000 小时)

◆ 双 CCFL 背光源

◆ 清晰 256K 色 (K=1024)

◆ 轻薄设计

◆ SVGA (800 x 600 像素彩色显示屏)

应用：显示终端；科学、医疗、测试和测量仪器；办公自动化设备机械特性物品规格单元大纲方面
199.5 (高) x 149.5 (垂直) x 最大 12.0 (深)

毫米数量像素

800 (水平) x 600 (垂直)

像素活动区域

170.4 (水平) x 127.8 (垂直)

毫米像素间距

0.213 (水平) x 0.213 (垂直)

毫米重量 (大约)

第 395 章公克背光

CCFL，侧光型 (2 灯)

绝对最大额定值物品象征分钟。

最大限度。

单元电源电压

V

DD

0.3

4.5

V

V

FL

0

2000 年有效值

FL 驾驶频率

F

FL

0

100

千赫输入信号电压

V

在

0.3

V

DD

0.3

V

操作温度时间操作

0

50

贮存温度时间

STG

20

60

湿度最大湿球温度 =

29℃)

10

90

相对湿度

1: 在 CCFL 逆变器效率损失之前, I

FL

6 毫安电气特性 (Ta=25° C)

物品象征分钟。

典型值。

最大限度。

单元电源电压我

FL

6 毫安)

V

DD

3.0

3.3

3.6

V

V
FL
第 480 章第 530 章第 580 章有效值
FL 开始电压
Ta=0° C)
1400
1600
有效值高电平输入电压-
年龄
V
间质性 H
0.8
—
V
DD
V
低电平输入电压
V
伊尔
0
0.2
V
当前的消耗我
DD
240
嘛我
FL
3.0
6.0
毫安臂力量消耗
1)
磷
7.2
瓦光学特性（Ta=25℃）
物品象征分钟。
典型值。
最大限度。
单元对比
CR
100
250
回复
t
在
50

多发性硬化症

t

离开

50

多发性硬化症亮度我

FL

6 毫安)

L

280

350

cd/米

2

可视角度

CR>30)

fL/fR

40/40

45/45

度氟尿/氟 D

45/45

50/50

度显示器

Purdy Electronics Corporation —720 Palomar Avenue —Sunnyvale, CA 94086

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: 408.523.8200 》传真: 408.733.1287 》email@purdy

2001 年 3 月 2 日

外形尺寸单位: 毫米标准公差: 0.5mm

ANDpSi08C351-HB

Purdy Electronics Corporation —720 Palomar Avenue —Sunnyvale, CA 94086

2001 年 3 月 2 日 : 408.523.8200 》传真: 408.733.1287 》email@purdy

3

显示器时序图时序规范物品象征最小典型值最大限度单元框架时期

t1

604×T3

625×t3

17.78

628×t3

17.86

多发性硬化症垂直的显示术语

t2

600×T3

600×T3

600×T3

t2=N • 3

一行扫描时间

t3

944×t5

26.3)

1056×t5

26.4

1064×t5

μs

水平显示时期

t4

800×t5

800×t5

800×t5

时钟周期

t5

24.7

25.0

27.8

纳秒时钟“溴”时间

t6

9.0

纳秒时钟“时间”

t7

9.0

纳秒设置时间

t8

4.0

纳秒保持时间

t9

5.0

纳秒

t 3

X, 2

X, 1

X, 3

X, 4

X、Y

X, 598

X, 599

X, 600

t 2

t 1

t 3

1, Y 2, Y 3, Y 4, Y 5, Y 6, Y 7, Y

X、Y

第 797 章

t 4

t 5

t 3

时钟信号

ENAB

R5~R0

G5~G0

B5~B0

第 799 章第 798 章

800, 是垂直计时水平计时时钟信号

ENAB

R5~R0

G5~G0

B5~B0

时钟信号

ENAB

R5~R0

G5~G0

B5~B0

t 6

t 5

t 7

时钟信号

0.5 电源电压

A

乙

VIH (分钟): 0.8 (V)

VIL (最大): 0.2 (V)

t 8

t 9

VIH (分钟): 0.8 (V)

输入信号中心电平: 0.5 VDD

VIL (最大): 0.2 (V)

占空比 (a、b): 50±10%

有效的数据

ANDpSi08C351-HB

显示器

Purdy Electronics Corporation —720 Palomar Avenue —Sunnyvale, CA 94086

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: 408.523.8200 》传真: 408.733.1287 》email@purdy

2001 年 3 月 2 日

推荐逆变器: INV8m122325 (12VDC 输入)

框图

1) 驱动器制作在 LCD 玻璃上接口的连接器引脚分配

800 像素

600 行

800, 1

1, 1

800, 2

1, 2

800, 599

800, 600

1, 599

1, 600

2, 1

2, 2

2, 599

2, 600

CN1 输入信号(1)

DF19G-30P-1H/广濑电机株式会社端子号象征功能

1

接地地面

2

电源电压

3. 3V 电源

3

电源电压

3. 3V 电源

4

接地地面

5

ENAB

复合同步信号

6

B5

2)

蓝色显示数据 (MSB)

7

B4

2)

蓝色显示数据

8

B3

2)

蓝色显示数据

9

B2

2)

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