



深圳市思迪科科技有限公司

SHENZHEN CDTECH ELECTRONICS

Product Specification

Model Name	S035HQ55HS-DR11
Description	TFT LCD Module 3.5" QVGA 320(RGB)x240 Dots
Date	2021/7/15
Version	2.0

Approved by/Date	Check by/Date	Prepared by/Date
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Customer Approval	
Date	



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Table of Contents

1. Record of Revision	3
2. General Specifications	4
3. Input/Output Terminals	5
4. Absolute Maximum Rating	5
5. Timing characteristics	6
6. Interface Timing	8
7. Optical Characteristics	13
8. Environmental / Reliability Tests	16
9. Mechanical Drawing	17
10. Packing	18
11. Precautions for Use of LCD modules	19



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2. General Specifications

Feature		Spec
Characteristics	Size	3.5 inch
	Resolution	320(horizontal)*240(Vertical)
	Interface	24bit-RGB
	Connect type	Connector
	Color Depth	16.7M
	Technology type	a-Si
	Pixel pitch (mm)	0.219*0.219
	Pixel Configuration	R.G.B.Stripe
	Display Mode	Normally Black
	Driver IC	ST7272A
	Viewing Direction	Full view
Mechanical	LCM (W x H x D) (mm)	76.90*63.90*4.41
	Active Area(mm)	70.08*52.56
	Weight (g)	-
	LED Numbers	6 LEDs

Note 1: Requirements on Environmental Protection: RoHs

Note 2: LCM weight tolerance: +/- 5%

3. Input/Output Terminals

No.	Symbol	Description
1-2	VBL-	Backlight LED Cathode
3-4	VBL+	Backlight LED Anode.
5	Y1	Touch panel up side
6	X1	Touch panel right side
7	NC	-
8	RESET	Reset Signal pin ("Low" is enable)
9	SPENB(NC)	Chip select(NC)
10	SPCK(NC)	Serial Clock.(NC)
11	SPDA(NC)	Serial Data(NC)
12-19	B0~B7	Data bus
20-27	G0~G7	Data bus
28-35	R0~R7	Data bus
36	HSYNC	Line Synchronous Signal
37	VSYNC	Frame Synchronous Signal
38	DOTCLK	Dot-clock signal and oscillator source
39-40	NC	-
41-42	VDD	Power supply for logic operation
43	Y2	Touch panel bottom side
44	X2	Touch panel left side
45-47	NC	-
48	IF2(NC)	Control the input data format(NC)
49	IF1(NC)	Control the input data format(NC)
50	IF0(NC)	Control the input data format(NC)
51	NC	-
52	DEN	Display enable signal
53-54	GND	System Ground

4. Absolute Maximum Rating

Item	Symbol	MIN	Typ	MAX	Unit	Remark
Supply Voltage	V _{DD}	-0.5	-	5.0	V	-
Operating Temperature	T _{OPR}	-20	-	70	°C	-
Storage Temperature	T _{STG}	-30	-	80	°C	

5. Timing characteristics

5.1 ELECTRICAL CHARACTERISTICS

Item		Symbol	MIN	TYP	MAX	Unit	Remark
Supply Voltage		V _{cc}	3.0	3.3	3.6	V	
		IOVCC	1.65	3.0	3.3		
Input Signal Voltage	Low Level	V _{IL}	GND	-	0.1x VDD	V	
	High Level	V _{IH}	0.8x VDD	-	VDD	V	
Output Signal Voltage	Low Level	V _{OL}	0	-	0.2*VDD	V	
	High Level	V _{OH}	0.8*VDD	-	VDD	V	

5.2 LED Driving Conditions

Item	Symbol	MIN	TYP	MAX	Unit	Remark
Forward Current	I _F	-	20	-	mA	
Forward Voltage	V _F	18.6	19.2	19.8	V	
Backlight Power consumption	W _{BL}	-	0.384	-	W	
LED Lifetime		-	30000	-	Hrs	

Note 1: Each LED: I_F =20 mA, V_F =3.2+/-0.2V.

Note 2: Optical performance should be evaluated at Ta=25°C only.

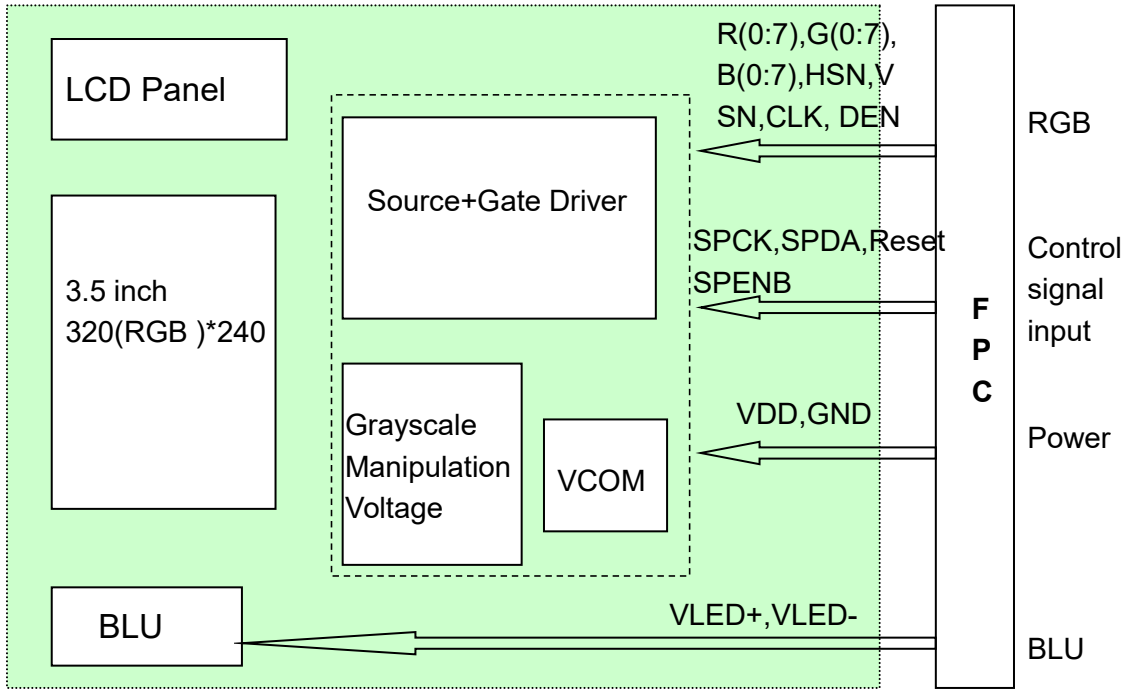
Note 3: If LED is driven by high current, high ambient temperature & humidity condition. The life Time of LED will be reduced. Operating life means brightness goes down to 50% initial brightness. Typical operating life time is estimated data.



CURRENT I_F=20mA

Figure: LED connection of backlight(Constant Current)

5.3 Block Diagram



6 Interface Timing

6.1 AC Electrical Characteristics

Test Condition: (VDD=VDDP=3.3V, VDDA=5.0V, GND=GNDA=GNDA=0V, TA= 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
System Operation Timing						
VDD power source slew time	T _{POr}			1000	us	From 0V to 90% VDD
RSTB active pulse width	T _{RSTB}	40			us	VDD = 3.3V
Input Output Timing						
CLKIN clock time	T _{clk}	33.3/125	-	-	ns	Please refer to timing table(p.32)
HSD to CLKIN	T _{hc}	-	-	1	CLKIN	
HSD width	T _{wh}	1	-	-	CLKIN	
VSD width	T _{vwh}	1	-	-	Th	
HSD period time	T _h	60	63.56	67	us	
VSD setup time	T _{vst}	8	-	-	ns	
VSD hold time	T _{vhd}	10	-	-	ns	
HSD setup time	T _{hst}	8	-	-	ns	
HSD hold time	T _{hhd}	10	-	-	ns	
Data set-up time	T _{dsu}	8	-	-	ns	DIN[23:0] to CLKIN
Data hold time	T _{dhd}	10	-	-	ns	DIN[23:0] to CLKIN
DEN setup time	T _{ed}	12	-	-	ns	DEN to CLKIN
Time that VSD to 1 st line data input	T _{vs}	2	13	127	Th	@CCIR601 / 8bit RGB HV mode Control by HDLY[6:0] setting T _{vs} = HDLY[6:0]
Time that CCIR_V to 1 st line data input	T _{vs}	12	20	28	Th	@CCIR656 NTSC mode Control by HDLY[6:0] setting T _{vs} = HDLY[6:0]
Time that CCIR_V to 1 st line data input	T _{vs}	17 25 33	Th			@CCIR656 PAL mode Control by HDLY[6:0] setting T _{vs} = HDLY[6:0]
Time that VSD to 1 st line data input	T _{vs}	2	13	127	Th	@24bit RGB HV mode Control by HDLY[6:0] setting T _{vs} = HDLY[6:0]
Source output stable time 1	T _{st}	-	25	30	us	96% final, CL=30pF, RL=2K
Gate output stable time	T _{gst}	-	500	1000	ns	96% final, CL=40pF
VCOMOUT output stable time	T _{cst}	-	4	8	us	96% final, CL=33nF, RL=100ohm
3-wire serial communication AC timing						
Serial clock	T _{spck}	320	-	-	ns	
SPCK pulse duty		40	50	60	%	T _{ckh} / T _{spck}
Serial data setup time	T _{isu}	120	-	-	ns	
Serial data hold time	T _{ihd}	120	-	-	ns	
Serial clock high/low	T _{ckh/l}	120	-	-	ns	
Chip select distinguish	T _{cd}	1	-	-	us	
SPENB to VSD	T _{cv}	1	-	-	us	
SPENB input setup time	T _{eck}	150	-	-	ns	
SPENB input hold time	T _{cke}	150	-	-	ns	

6.2 DC Electrical Characteristics

Recommended Operating Range

Item	Symbol	Min.	Typ.	Max.	Unit	Conditions
Supply Voltage	VDD	3.0	3.3	3.6	V	
IO Supply Voltage	VDDI	3.0	-	3.6	V	
Charge Pump Supply Voltage	PVDD	3.0	3.3	3.6	V	

DC Characteristics for Digital Circuit

Item	Symbol	Min.	Typ.	Max.	Unit	Conditions
Logic-High Input Voltage	Vih	0.7VDDI	-	VDDI	V	
Logic-Low Input Voltage	Vil	DGND	-	0.3VDDI	V	
Logic-High Output Voltage	Voh	VDDI-0.4	-	VDDI	V	
Logic-Low Output Voltage	Vol	DGND	-	DGND+0.4	V	

DC Characteristics for Analog Circuit

Item	Symbol	Min.	Typ.	Max.	Unit	Conditions
Positive High-Voltage Power	VGH	13	15	16.5	V	No Load@ FR=60Hz
Negative High-Voltage Power	VGL	-7	-10	-11	V	
Output Voltage Deviation	Vod	-	±35	±45	mV	
Standby Current	Isc	-		50	uA	
Operation Current	Ioc	-	20		mA	

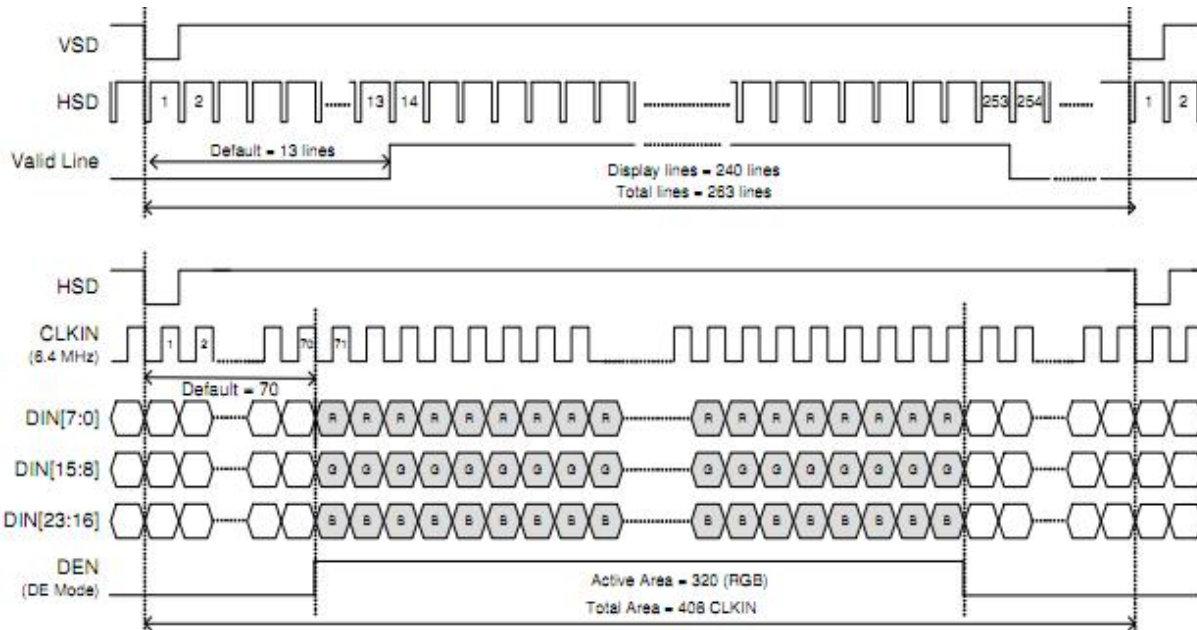
6.3 24 Bit RGB Mode

Parallel 24-bit RGB Input Timing (PVDD=VDD=VDDI= 3.3V, AGND= 0V, TA=25°C)

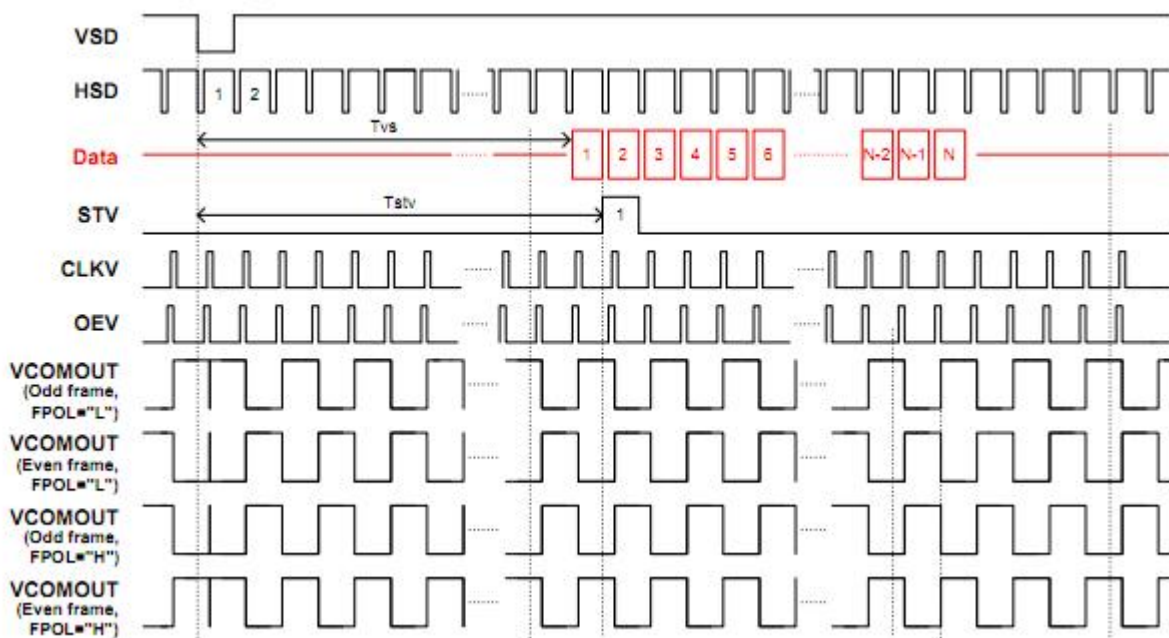
Parallel 24-bit RGB Input Timing Table							
Item	Symbol	Min.	Typ.	Max.	Unit	Note	
DCLK Frequency	Fclk	5	6	8	MHz		
DCLK Period	Tclk	125	167	200	ns		
HSYNC	Period Time	Th	325	371	438	DCLK	
	Display Period	Thdisp		320		DCLK	
	Back Porch	Thbp	3	43	43	DCLK	SYNC mode back porch control by H_BLANKING[7:0] setting Thbp= H_BLANKING[7:0]
	Front Porch	Thfp	2	8	75	DCLK	
	Pulse Width	Thw	2	4	43	DCLK	
VSYNC	Period Time	Tv	244	260	289	HSYNC	
	Display Period	Tvdisp		240		HSYNC	
	Back Porch	Tvbp	2	12	12	HSYNC	SYNC mode back porch control by V_BLANKING[7:0] setting Tvbp= V_BLANKING[7:0]
	Front Porch	Tvfp	2	8	37	HSYNC	
	Pulse Width	Tvw	2	4	12	HSYNC	

Note: It is necessary to keep Tvbp =12 and Thbp =43 in sync mode. DE mode is unnecessary to keep it.

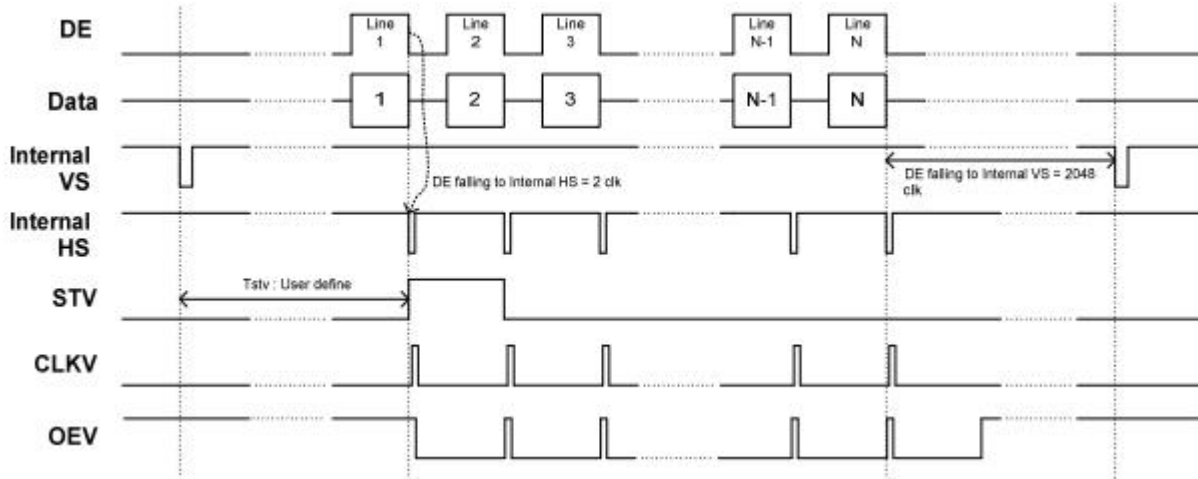
6.4 Input Data Timing



6.5 Vertical Timing Diagram (HV Mode)



6.6 Vertical Timing Diagram (DE Mode)



7 . Optical Characteristics

Items		Symbol	Condition	Min.	Typ.	Max.	Unit	Remark	Note
Response time		Tr+Tf	-	-	50	80	ms	FIG.1	Note4
Contrast Ratio		CR		-	700	-	-	FIG.2	Note1
Surface luminance		LV	$\theta = 0^\circ$	-	370	-	cd/m2	FIG.2	Note2
Luminance uniformity		Yu	$\theta = 0^\circ$	70	80	-	%	FIG.2	Note3
NTSC		-	$\theta = 0^\circ$	-	50	-	%	FIG.2	Note5
Viewing angle		θ Cr>10	θ_T	-	80	-	deg	FIG.3	Note6
			θ_B	-	80	-	deg	FIG.3	
			θ_L	-	80	-	deg	FIG.3	
			θ_R	-	80	-	deg	FIG.3	
Chromaticity	Red	R _x	$\theta = 0^\circ$ $\phi = 0^\circ$ Ta=25°	0.563	0.613	0.663	-	FIG.2 CIE1931	Note5
		R _y		0.307	0.357	0.407	-		
	Green	G _x		0.314	0.364	0.414	-		
		G _y		0.553	0.603	0.653	-		
	Blue	B _x		0.100	0.150	0.200	-		
		B _y		0.059	0.109	0.159	-		
	White	W _x		0.282	0.332	0.382	-		
		W _y		0.334	0.384	0.434	-		

Note1. Definition of contrast ratio

Contrast ratio(Cr) is defined mathematically by the following formula. For more information see FIG.2.

$$\text{Contrast ratio} = \frac{\text{Luminance with all pixels white}}{\text{Luminance with all pixels black}}$$

For contrast ratio, Surface Luminance, Luminance uniformity and CIE,the testing data is base on TOPCON' s BM-5 or BM-7 photo detector or compatible.

Note2. Definition of surface luminance.

Surface luminance is the luminance with all pixels displaying white. For more information see FIG.2.

Lv = Average Surface Luminance with all white pixels(P1,P2,P3,,Pn)

Note3. Definition of luminance uniformity

The luminance uniformity in surface luminance is determined by measuring luminance at each test position 1 through n, and then dividing the maximum luminance of n points luminance by minimum luminance of n points luminance.For more information see FIG.2.

$$YU = \frac{\text{Minimum surface luminance with all white pixels (P1,P2,P3,.....,Pn)}}{\text{Maximum surface luminance with all white pixels (P1,P2,P3,.....,Pn)}}$$

Maximum surface luminance with all white pixels (P1,P2,P3,.....,Pn)

Note4. Definition of response time

The response time is defined as the LCD optical switching time interval between “White” state and “Black”state. Rise time (Tr) is the time between photo detector output intensity changed from 90% to 10%. And fall time (Tf) is the time between photo detector output intensity changed from 10% to 90%.

For additional information see FIG1.

Note5. Definition of color chromaticity (CIE1931)

CIE (x,y) chromaticity, The x,y value is determined by screen active area center position P5. For more information see FIG.2.

Note6. Definition of viewing angle

Viewing angle is the angle at which the contrast ratio is greater than 10. Angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to the LCD surface. For more information see FIG.3.

For viewing angle and response time testing, the testing data is base on Autronic-Melchers’ s ConoScope or DMS series Instruments or compatible.

FIG.1.The definition of response Time

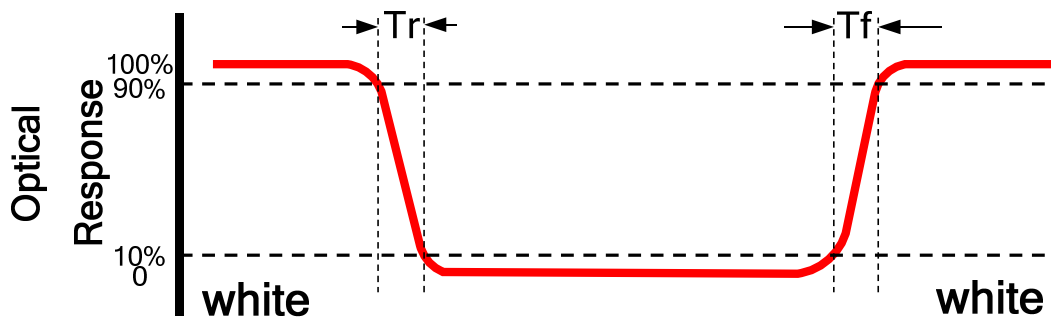


FIG.2. Measuring method for contrast ratio, surface luminance,

luminance uniformity, CIE (x,y) chromaticity

Size : S≤5”(see Figure a) A : 5 mm B : 5 mm

H,V : Active area

Light spot size $\varnothing=5\text{mm}$ (BM-5) or $\varnothing=7.7\text{mm}$ (BM-7)50cm distance or compatible distance from the LCD surface to detector lens.

test spot position : see Figure a.

measurement instrument : TOPCON’s luminance meter BM-5 or BM-7 or compatible (see Figure c).

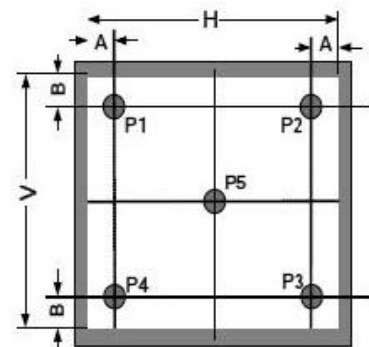


Figure a

Size : $5'' < S \leq 12.3''$ (see Figure b) H,V : Active area

Light spot size $\varnothing = 5\text{mm}$ (BM-5) or $\varnothing = 7.7\text{mm}$ (BM-7) 50cm distance or compatible distance from the LCD surface to detector lens.

test spot position : see Figure b.

measurement instrument : TOPCON's luminance meter BM-5 or BM-7 or compatible (see Figure c).

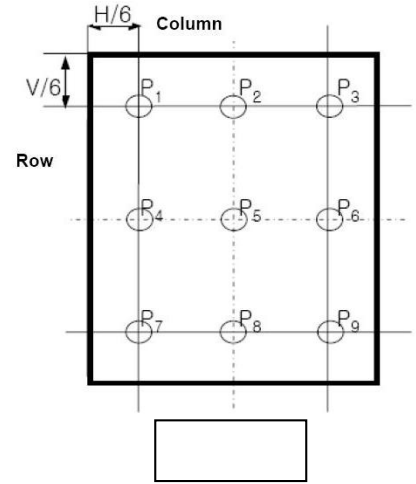


Figure b

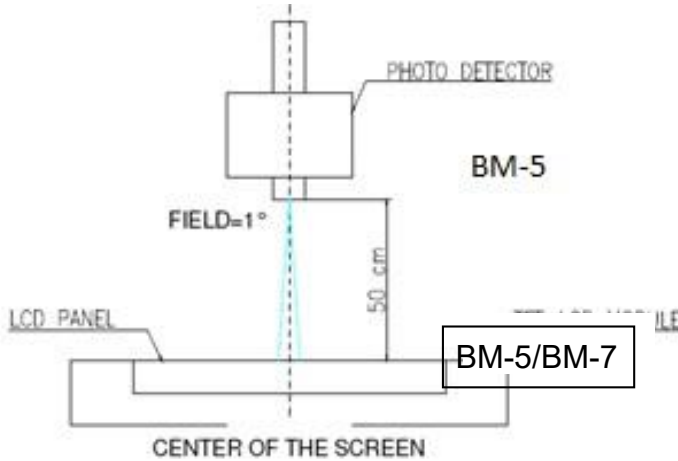
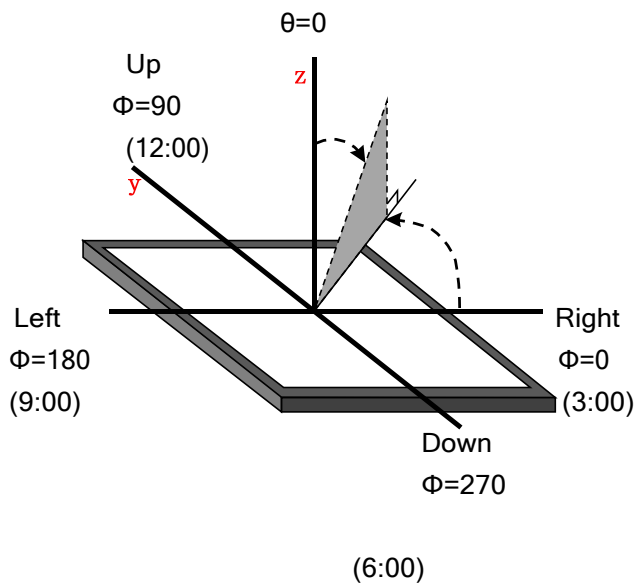


Figure c

FIG.3.The definition of viewing angle



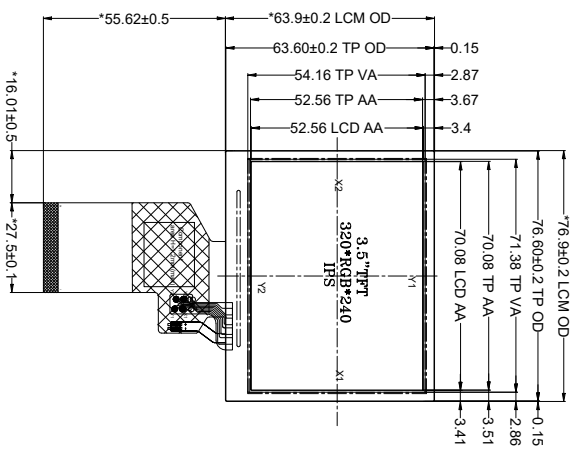
8 . Environmental / Reliability Tests

No	Test Item	Condition	Remarks
1	High Temperature Operation	Ts= +70°C, 96hrs	Note 1 IEC60068-2-2, GB2423. 2-89
2	Low Temperature Operation	Ta= -20°C, 96hrs	Note 2 IEC60068-2-1 GB2423.1-89
3	High Temperature Storage	Ta= +80°C, 96hrs	IEC60068-2-2 GB2423. 2-89
4	Low Temperature Storage	Ta= -30°C, 96hrs	IEC60068-2-1 GB/T2423.1-89
5	High Temperature & Humidity Storage	Ta= +60°C, 90% RH max,96 hours	IEC60068-2-3 GB/T2423.3-2006
6	Thermal Shock (Non-operation)	-20°C 30 min ~ +60°C 30 min Change time: 5min, 30 Cycle	Start with cold temperature, end with high temperature IEC60068-2-14, GB2423.22-87
7	Electro Discharge (Operation) Static	C=150pF, R=330 Ω, 5 points/panel Air:±8KV, 5 times; Contact: ±4KV, 5 times; (Environment: 15°C ~ 35°C, 30% ~ 60%, 86Kpa ~ 106Kpa)	IEC61000-4-2 GB/T17626.2-1998
8	Vibration (Non-operation)	Frequency range: 10~55Hz, Stroke: 1.mm Sweep: 10Hz~55Hz~10Hz 2 hours for each direction of X .Y. Z. (package condition)	IEC60068-2-6 GB/T2423.5-1995
9	Shock (Non-operation)	60G 6ms, ± X, ±Y , ± Z 3 times for each direction	IEC60068-2-27 GB/T2423.5-1995
10	Package Drop Test	Height: 80 cm, 1 corner, 3 edges, 6 surfaces	IEC60068-2-32 GB/T2423.8-1995

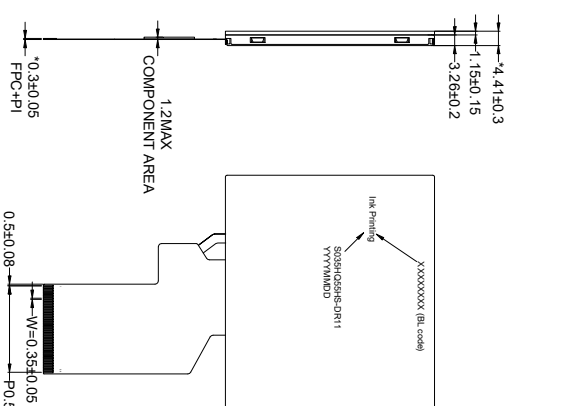
- Note:1. Ts is the temperature of panel's surface.
2. Ta is the ambient temperature of sample.
3. The size of sample is 5pcs.

9 . Mechanical Drawing

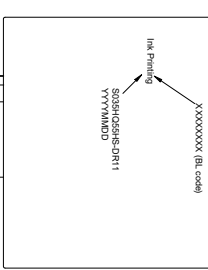
Front view



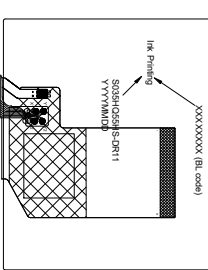
Side view



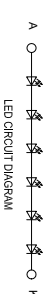
Dorsal view



FPC bending diagram

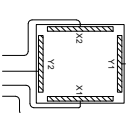


LED CIRCUIT DIAGRAM



喷码内容: S035HQ55HS-DR11
YYYYMMDD

FPC折弯示意图
FPC 折弯不固定出货



1	Y1	NC
2	Y2	NC
3	Y1A	NC
4	Y1B	NC
5	Y1C	NC
6	Y1D	NC
7	Y1E	NC
8	Y1F	NC
9	Y1G	NC
10	Y1H	NC
11	Y1I	NC
12	Y1J	NC
13	Y1K	NC
14	Y1L	NC
15	Y1M	NC
16	Y1N	NC
17	Y1O	NC
18	Y1P	NC
19	Y1Q	NC
20	Y1R	NC
21	Y1S	NC
22	Y1T	NC
23	Y1U	NC
24	Y1V	NC
25	Y1W	NC
26	Y1X	NC
27	Y1Y	NC
28	Y1Z	NC
29	Y2A	NC
30	Y2B	NC
31	Y2C	NC
32	Y2D	NC
33	Y2E	NC
34	Y2F	NC
35	Y2G	NC
36	Y2H	NC
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101	Y4U	NC
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185	Y8A	NC
186	Y8B	NC
187	Y8C	NC
188	Y8D	NC
189	Y8E	NC
190	Y8F	NC
191	Y8G	NC
192	Y8H	NC
193	Y8I	NC
194	Y8J	NC
195	Y8K	NC
196	Y8L	NC
197	Y8M	NC
198	Y8N	NC
199	Y8O	NC
200	Y8P	NC
201	Y8Q	NC
202	Y8R	NC
203	Y8S	NC
204	Y8T	NC
205	Y8U	NC
206	Y8V	NC
207	Y8W	NC
208	Y8X	NC
209	Y8Y	NC
210	Y8Z	NC
211	Y9A	NC
212	Y9B	NC
213	Y9C	NC
214	Y9D	NC
215	Y9E	NC
216	Y9F	NC
217	Y9G	NC
218	Y9H	NC
219	Y9I	NC
220	Y9J	NC
221	Y9K	NC
222	Y9L	NC
223	Y9M	NC
224	Y9N	NC
225	Y9O	NC
226	Y9P	NC
227	Y9Q	NC
228	Y9R	NC
229	Y9S	NC
230	Y9T	NC
231	Y9U	NC
232	Y9V	NC
233	Y9W	NC
234	Y9X	NC
235	Y9Y	NC
236	Y9Z	NC
237	Y0A	NC
238	Y0B	NC
239	Y0C	NC
240	Y0D	NC
241	Y0E	NC
242	Y0F	NC
243	Y0G	NC
244	Y0H	NC
245	Y0I	NC
246	Y0J	NC
247	Y0K	NC
248	Y0L	NC
249	Y0M	NC
250	Y0N	NC
251	Y0O	NC
252	Y0P	NC
253	Y0Q	NC
254	Y0R	NC
255	Y0S	NC
256	Y0T	NC
257	Y0U	NC
258	Y0V	NC
259	Y0W	NC
260	Y0X	NC
261	Y0Y	NC
262	Y0Z	NC



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10 . Packing

Packing Method
TBD

11. Precautions for Use of LCD modules

11.1 Handling Precautions

11.1.1. The display panel is made of glass. Do not subject it to a mechanical shock by dropping it from a high place, etc.

11.1.2. If the display panel is damaged and the liquid crystal substance inside it leaks out, be sure not to get any in your mouth, if the substance comes into contact with your skin or clothes, promptly wash it off using soap and water.

11.1.3. Do not apply excessive force to the display surface or the adjoining areas since this may cause the color tone to vary.

11.1.4. The polarizer covering the display surface of the LCD module is soft and easily scratched. Handle this polarizer carefully.

11.1.5. If the display surface is contaminated, breathe on the surface and gently wipe it with a soft dry cloth. If still not completely clear, moisten cloth with one of the following solvents:

- Isopropyl alcohol
- Ethyl alcohol

Solvents other than those mentioned above may damage the polarizer. Especially, do not use the following:

- Water
- Ketene
- Aromatic solvents

11.1.6. Do not attempt to disassemble the LCD Module.

11.1.7. If the logic circuit power is off, do not apply the input signals.

11.1.8. To prevent destruction of the elements by static electricity, be careful to maintain an optimum work environment.

11.1.8.1. Be sure to ground the body when handling the LCD Modules.

11.1.8.2. Tools required for assembly, such as soldering irons, must be properly ground.

11.1.8.3. To reduce the amount of static electricity generated, do not conduct assembly and other work under dry conditions.

11.1.8.4. The LCD Module is coated with a film to protect the display surface. Be care when peeling off this protective film since static electricity may be generated.

11.2 Storage Precautions

11.2.1. When storing the LCD modules, avoid exposure to direct sunlight or to the light of fluorescent lamps.

11.2.2. The LCD modules should be stored under the storage temperature range. If the LCD modules will be stored for a long time, the recommend condition is:

Temperature : 0°C ~ 40°C Relatively humidity: ≤80%

11.2.3. The LCD modules should be stored in the room without acid, alkali and harmful gas.



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11.3 Transportation Precautions

The LCD modules should be no falling and violent shocking during transportation, and also should avoid excessive press, water, damp and sunshine.