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B 3	3 GV185FHM-N10 Pr	oduct Sp	ecification Rev.P1.0	
SUPPLIEI	R HEFEI BOE (Optoelect	ronics Technology CC	D., LTD
FG-Code	2	GV185FH	HM-N10-3M31	
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ISSUE DATE

2024.04.22

REVISION HISTORY

REV.	ECN NO.	DESCRIPTION OF CHANGES	DATE	PR	EPARED
P0	-	Initial Release	2024.01.30	ŀ	lu Bing
P1.0	-		2024.04.22	ŀ	lu Bing
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1.0 GENERAL DESCRIPTION

1.0.1 Introduction

GV185FHM-N10-3M31 is a color active matrix TFT LCD module using amorphous silicon TFT's (Thin Film Transistors) as an active switching devices. This module has a 18.5 inch diagonally measured active area with FHD resolutions (1920 horizontal by 1080 vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16.7 M colors.



1.0.2 Features

- LED back-light
- LVDS interface
- RoHS Compliant
- 16.7M color depth

1.0.3 Application

• Industrial display or HMI etc.

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1.0.4 General Specification

< Table 1. General Specifications >

Parameter	Specification	Unit	Remarks
Active area	408.96 (H) × 230.04(V)	mm	
Number of pixels	1920(H) × 1080(V)	Pixels	
Pixel pitch	0.213(H) × 0.213 (V)	mm	
Pixel arrangement	RGB Vertical stripe		
Display colors	16.7M(8bit)	Colors	
Display mode	Normally Black		
Dimensional outline	430.4 (H) × 254.6(V) × 12(D) typ.	mm	
Weight	1150±50	g	
Surface treatment	AG25, 3H		
Back-light	Edge side, 1-LED Lighting Bar Type		56*LED

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2.0 ABSOLUTE MAXIMUM RATINGS

The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current values are listed in Table 2.

<	Table 2. Environment Absolute Maximum Ratings>	[Ta =25±2 ℃]
	0	

Parameter	Symbol	Min.	Тур.	Max.	Unit	Remarks
Back-light Power Supply Voltage	HV _{DDOUT}	-	42	-	V	
Back-light LED Current	I _{HVDD}	-	360	-	mA	Ta = 25 ℃ Note 1&2
Back-light LED Reverse Voltage	V _R	-	-	-	V	
Power Supply Input Voltage	VCC	-0.3	-	7	V	
Operating Temperature	T _{OP}	-30	-	80	°	Environment
Storage Temperature	Τ _{st}	-30	-	80	°	Temperature
Heat Release Requirement	Trls		15		°C	Note3

Note:

1. These range above is maximum value not the actual operating temperature . Actual Operating temperature is no more than 40° C and temperature refers to the LCM surface temperature ;

2.BOE is not responsible for product problems beyond the use conditions.

3. When the ambient temperature is T °C, the surface temperature of Panel can not exceed (T+15)°C.

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3.0 ELECTRICAL SPECIFICATIONS

3.0.1 TFT LCD Module

< Table 3. LCD Module Electrical Specifi	cations > ITa =25±2

Parameter	Symbol	Values			Unit	Notes	
	Cymser	Min	Тур	Max		Notoo	
Power Supply Input Voltage	V _{DD}	4.5	5	5.5	V		
Power Supply Current	I _{DD}	-	600	1500	mA	Note 1	
Power Supply inrush Current	Inrush	-	-	3	А		
LED Driver Power Supply Voltage	H _{VDD}	10.8	12	13.2	V		
LED Driver Power Supply Current	I _{HVDD}	-	1500	1700	mA	Note 2	
LED Power Consumption	P _{LED}	-	18	20	W		
LED Driver Power Supply inrush Current	Inrush	-	-	3	А		
Positive-going Input Threshold Voltage	V _{IT+}	-	-	+100	mV	Vcom = 1.2V	
Negative-going Input Threshold Voltage	V _{IT-}	-100	-	-	mV	typ.	
Differential input common mode voltage	V _{com}	-	1.2	-	V	V _{IH} =100mV, V _{IL} =-100mV	
LED Lifetime	-	50000	-	-	Hours		

Notes : 1. The supply voltage is measured and specified at the interface connector of LCM. The current draw and power consumption specified is for 5V at 25 °C Max value at Black Pattern

2. Calculated value for reference $~I_{LED} \times ~V_{LED} {\div} 0.85$ = P_{LED}

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3.2 Back-light Unit

< Table 4. LED Driving guideline specifications > Ta=25

Ta=25+/-2°C

	Parameter	Min.	Тур.	Max.	Unit	Remarks	
Power supply Back light	V_{LED}	-	42	-	V		
Power supply Back light	/ Current for	I _{LED}	-	360	-	mA	
Power supply for Back light		P_{LED}	-	15.12	-	W	Note 1
EN Control	Backlight on	V _{ENH}	2	-	-	V	EN logic high v oltage
Level	Backlight off	V _{ENL}	-	-	0.8	V	EN logic low vol tage
PWM	PWM High Level	V _{PML}	2	-	-	V	
Level	PWM Low Level	V _{PML}	-	-	0.8	V	
PWM Control Frequency		F _{PWM}	0.1	-	50	KHz	
Duty Ratio		-	5	-	100	%	

Notes : 1. Calculator Value for reference $I_{LED} \times V_{LED} = P_{LED}$

2. The LED Life-time define as the estimated time to 50% degradation of initial luminous under the condition of the ambient temperature of 25°C.

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4.0 INTERFACE CONNECTION.

4.0.1 Electrical Interface Connection

The electronics interface connector is IS100-L30R-C23 (UJU) or equivalent The LED connector is CI4205M2HRD-NH or equivalent.

The connector interface pin assignments are listed in Table 6 and 7.

<Table 6. Pin Assignments for the Interface Connector>

Pin No.	Symbol	bol Description		κ	
1	RxOIN0-	LVDS data input			
2	RxOIN0+	LVDS data input			
3	RxOIN1-	LVDS data input			
4	RxOIN1+	LVDS data input			
5	RxOIN2-	LVDS data input			
6	RxOIN2+	LVDS data input			
7	VSS	Ground			
8	RxOCLKIN-	LVDS clock input			
9	RxOCLKIN+	LVDS clock input			
10	RxOIN3-	LVDS data input			
11	RxOIN3+	LVDS data input			
12	RxEIN0-	LVDS data input			
13	RxEIN0+	LVDS data input			
14	VSS	Ground			
15	RxEIN1-	LVDS data input			
16	RxEIN1+	LVDS data input			
17	VSS	VSS Ground			
18	RxEIN2-	LVDS data input			
19	RxEIN2+	LVDS data input			
20	RxECLKIN-	LVDS clock input			
21	RxECLKIN+	LVDS clock input			
22	RxEIN3-	RxEIN3- LVDS data input			
23	RxEIN3+	LVDS data input			
24	VSS	Ground			
25	SCL	NC (I2C BUS)	Only BOE	use	
26	SDA	NC (I2C BUS)	Only BOE	use	
27	WP	NC (EEPROM write EN)	Only BOE	use	
28	VCC	Power supply(5V)			
29	VCC	Power supply(5V)			
30	VCC Power supply(5V)				
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4.0 INTERFACE CONNECTION.

4.0.1 Electrical Interface Connection

The electronics interface connector is IS100-L30R-C23 (UJU) or equivalent The LED connector is CI4205M2HRD-NH or equivalent.

The connector interface pin assignments are listed in Table 6 and 7.

<Table 7. Pin Assignments for the LED Connector>

Terminal	Symbol	Functions
Pin No.	Symbol	Description
1	VCC	12V
2	GND	GND
3	Enable	5V-On / 0V-Off
4	Dimming	PWM Dimming
5	NC	No Connection

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5.0 SIGNAL TIMING SPECIFICATION

5.0.1 The GV185FHM-N10 is operated by the DE only.

Item	Symbols		Min	Тур	Max	Unit	Note
	Period	tCLK	9.5	-	25	ns	Note 1
DCLK	Frequency	-	40	-	105	MHz	
	Period	tHP	990	1040	-	tCLK	
11	Horizontal Valid	tHV	-	960	-	tCLK	
Hsync	Horizontal Blank	tHB	30	80	-	tCLK	
-	Frequency	fH	45	60	75	KHz	
	Period	tVP	1100	1125	1138	tHP	
	Vertical Valid	tVV	-	1080	-	tHP	
vsync	Vertical Blank	tVB	30	45	58	tHP	
	Frequency	fV	45	60	75	Hz	
LVDS Receiver clock	Input spread spectrum ratio	SSr	-	1.5	2	%	Note 2
	spread spectrum modulation frequency	Fssm	_	_	100	KHZ	note 2

Note 1: The DCLK range at last line of V-blanking should be set in 0-H-active/2. Note 2: The SSGG(spread Spectrum Clock Generator) is defined as following figure:





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5.02 LVDS Rx Interface Timing Parameter

The specification of the LVDS Rx interface timing parameter is shown in Table 4.

Item	Symbol	Min	Тур	Max	Unit	Remark
CLKIN Period	tRCIP	9.5	-	25	nsec	
Input Data 0	tRIP1	-0.4	0.0	0.4	nsec	
Input Data 1	tRIP0	tRCIP/7-0.4	tRCIP/7	tRCIP/7+0.4	nsec	
Input Data 2	tRIP6	2 ×tRCIP/7-0.4	2 ×tRCIP/7	$2 \times tRCIP/7+0.4$	nsec	
Input Data 3	tRIP5	3 ×tRCIP/7-0.4	3 ×tRCIP/7	$3 \times tRCIP/7+0.4$	nsec	
Input Data 4	tRIP4	4 ×tRCIP/7-0.4	4 ×tRCIP/7	$4 \times tRCIP/7+0.4$	nsec	
Input Data 5	tRIP3	5 ×tRCIP/7-0.4	5 ×tRCIP/7	5 ×tRCIP/7+0.4	nsec	
Input Data 6	tRIP2	6 ×tRCIP/7-0.4	6 ×tRCIP/7	6 ×tRCIP/7+0.4	nsec	

<Table 4. LVDS Rx Interface Timing Specification>







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6.03 Horizontal Timing Waveforms





7.0 POWER SEQUENCE

To prevent a latch-up or DC operation of the LCD module, the power on/off sequence shall be as shown in below



Donomotor		Units		
Parameter	Min	Тур	Max	Units
T1	0.5	-	10	ms
T2	0	-	50	ms
T3	300	-	-	ms
T4	500	-	-	ms
T5	0	-	50	ms
T6	0	-	10	ms
T7	500	-	-	ms

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8.0 OPTICAL SPECIFICATION

8.0.1 Overview

The test of view angle range shall be measured in a dark room (ambient luminance \leq 1lux and temperature = $25\pm2^{\circ}$ C) with the equipment of Luminance meter system (Goniometer system and TOPCON CS2000/CA310) and test unit shall be located at an approximate distance 50cm from the LCD surface at a viewing angle of θ and Φ equal to 0°. We refer to $\theta \emptyset = 0$ (= $\theta 3$) as the 3 o'clock direction (the "right"), $\theta \emptyset = 90$ (= $\theta 12$) as the 12 o'clock direction ("upward"), $\theta \emptyset = 180$ (= $\theta 9$) as the 9 o'clock direction ("left") and $\theta \emptyset = 270$ (= $\theta 6$) as the 6 o'clock direction ("bottom"). While scanning θ and/or \emptyset , the center of the measuring spot on the Display surface shall stay fixed. The luminance, color and uniformity (etc) should be tested by CS2000/CA310. The backlight should be operating for 10 minutes prior to measurement. VDD shall be 3.3 ± 0.3V at 25°C. Optimum viewing angle direction is 6 'clock

Parameter			Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
	Hori	zontol	Θ ₃		80	85	-	Deg.	
Viewing Angle	Honzoniai		Θ ₉	00.40	80	85	-	Deg.	Noto 1
range		tical	Θ ₁₂	CK > 10	80	85	-	Deg.	NOLE I
	vei	lical	Θ ₆		80	85	-	Deg.	
Luminance Co	ontras	t ratio	CR	Θ = 0°	900	1200	-		Note 2
Luminance of White	Ce	nter	Y _w		425	500	-	cd/m ²	Note 3
White Luminance uniformity	9 P	oints	ΔΥ9	Θ = 0°	80	85	-	%	Note 4
Color Gamut	N	SC	CIE1931	Θ = 0°	65	70	-	%	
Reproduction	White		Wx		Тур	0.286	Тур		Note 5
of color			Wy	Θ = 0°	-0.05	0.296	+0.05		
Response Time		Tr+Td	Ta= 25° C Θ = 0°	-	30	35	ms	Note 6	
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		-
<table 5.<="" td=""><td>Optical</td><td>Specifications></td></table>	Optical	Specifications>

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CR =

- Notes : 1. Viewing angle is the angle at which the contrast ratio is greater than 10. The viewing angles are determined for the horizontal or 3, 9 o'clock direction and the vertical or 6, 12 o'clock direction with respect to the optical axis which is normal to the LCD surface (see FIGURE 1).
 - Contrast measurements shall be made at viewing angle of Θ= 0 and at the center of the LCD surface. Luminance shall be measured with all pixels in the view field set first to white, then to the dark (black) state . (see FIGURE 1) Luminance Contrast Ratio (CR) is defined mathematically.

Luminance when displaying a white raster

Luminance when displaying a black raster

- 3. Luminance of white is defined as luminance values of center of the LCD surface. Luminance shall be measured with all pixels in the view field set first to white. This measurement shall be taken at the locations shown in FIGURE 2 for a total of the measurements per display. The luminance is measured by CS2000/CA310 when the LED current is set at 60mA.
- 4. The White luminance uniformity on LCD surface is then expressed as : $\Delta Y = Minimum$ Luminance of 9 Points / Maximum Luminance of 9 Points (See FIGURE 2).
- 5. The color chromaticity coordinates specified in Table 5. shall be calculated from the spectral data measured with all pixels first in red, green, blue and white. Measurements shall be made at the center of the panel.
- 6. The electro-optical response time measurements shall be made as FIGURE 3 by switching the "data" input signal ON and OFF. The times needed for the luminance to change from 10% to 90% is Tr, and 90% to 10% is Td.

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The electro-optical response time measurements shall be made as shown in FIGURE 3 by switching the "data" input signal ON and OFF. The times needed for the luminance to change from 10% to 90% is Tr and 90% to 10% is Td.

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9.0 MECHANICAL OUTLINE DIMENSION

Figure 1. TFT-LCD Module Outline Dimension (Front View)



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Figure 2. TFT-LCD Module Outline Dimensions (Rear view)



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10.0 RELIABILITY TEST

The Reliability test items and its conditions are shown in below.

<Table 9. Reliability test>

No	Test Items	Conditions	Remark
1	High temperature storage test	Ta = 80°C, 240 hrs	
2	Low temperature storage test	Ta = -30°C, 240 hrs	
3	High temperature operation test	Ta = 80°C, 240 hrs	
4	Low temperature operation test	Ta = -30°C, 240 hrs	
5	High temperature & high humidity operation test	Ta = 60 °C, 90%RH, 240 hrs	
6	Thermal shock	Ta = -30 °C ↔ 80°C (0.5 hr), 1hour/Cycle,100 cycle	Non-operation
7	ESD test	C=150pF, R=330Ω, Air: ±15KV, Contact: ±8KV,100point	
8	Vibration Test (Non-operation)	1.5G,10~200Hz,30min/AXIS ; X,Y,Z directions ; Wave: random	

Note: After the reliability test, the product only guarantee function normally without any fatal defect (non-display, line defect, abormal display etc). All the cosmetic specification is judged before the reliablity test.

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11.0 Precautions

Please pay attention to the followings when you use this TFT LCD Panel.

• 11.1 Mounting Precautions

• (1) Use fingerstalls with soft gloves in order to keep display clean during the incoming inspection and assembly process.

• (2) You must mount a module using specified mounting holes (Details refer to the drawings).

• (3) Please make sure to avoid external forces applied to the Source PCB or FPC and D-IC during the process of handling or eccembling. If not, It causes applied to the Source PCB or FPC and D-IC

- during the process of handling or assembling. If not, It causes panel damage or malfunction.
- (4) Note that polarizers are very fragile and could be easily damaged. Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment.
- (5) Do not pull or fold the source D-IC which connect the source PCB or FPC and the panel.
- Do not pull or fold the LED wire.
- (6) After removing the protective film, when the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks with alcohol or purified water.
- Do not strong polar solvent because they cause chemical damage to the polarizer.
- (7) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (8) Protection film for polarizer on the module shall be slowly peeled off just before use so that the electrostatic charge can be minimized.
- (9) Since the LCD is made of glass, do not apply strong mechanical impact or static load onto it. Handling with care since shock, vibration, and careless handling may seriously affect the product. If it

falls from a high place or receives a strong shock, the glass may be broken.

- (10) Do not disassemble the module.
- (11) To determine the optimum mounting angle, refer to the viewing angle range in the specification for each model.

• (12) If the customer's set presses the main parts of the LCD, the LCD may show the abnormal display. But this phenomenon does not mean the malfunction of the LCD and should be pressed by the way of mutual agreement.

• (13)Do not drop water or any chemicals onto the LCD's surface.

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11.2 Operating Precautions

• (1) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.

• (2) Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important

to minimized the interference.

• (3) The electrochemical reaction caused by DC voltage will lead to LCD degradation, so DC drive should be avoided.

• (4) The LCD modules use C-MOS LSI drivers, so customers are recommended that any unused input terminal would be connected to Vdd or Vss, do not input any signals before power is turn on, and

ground you body, work/assembly area, assembly equipments to protect against static electricity.

- (5) Do not exceed the absolute maximum rating value. (supply voltage variation, input voltage variation, variation in part contents and environmental temperature, and so on) Otherwise the Module may be damaged.
- (6) Design the length of cable to connect between the connector for back-light and the converter as short as possible and the shorter cable shall be connected directly.
- The longer cable between that of back-light and that of converter may cause the luminance of LED to lower and need a higher startup voltage(Vs).
- (7) Connectors are precise devices for connecting PCB and transmitting electrical signals. Operators should insert and unplug MDL in parallel when assembling MDL.
- (8) Do not connect or disconnect the cable to/ from the module at the "Power On" condition.
- (9) When the module is operating, do not lose CLK, ENAB signals. If any one these

signals is lost, the LCD panel would be damaged.

- (10) Obey the supply voltage sequence. If wrong sequence is applied, the module would be damaged.
- (11) Do not re-adjust variable resistor or switch etc.
- (12) Long Side LED Bar design is recommended when using E-LED type Back Light.

11.3 Electrostatic Discharge Control

• (1) Since a module is composed of electronic circuits, it is not strong to electrostatic discharge. Make certain that treatment persons are connected to ground through wrist band etc. And don't touch interface pin directly. Keep products as far away from static electricity as possible.

- (2) Avoid the use work clothing made of synthetic fibers. We recommend cotton clothing or other conductivity-treated fibers.
- (3) In order to prevent potential problems, Flicker should be adjusted by Optimizing the Vcom value in customer LCM line through the I2C interface.

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11.4 Precautions for Strong Light Exposure

It is not allowed to store or run directly in strong light or in high temperature and humidity for a long time; Strong light exposure causes degradation of polarizer and color filter.

11.5 Storage Precautions

When storing modules as spares for a long time, the following precautions are necessary.

- •(1) The polarizer surface should not come in contact with any other object.
 - It is recommended that they be stored in the container in which they were shipped. Temperature : $5 \sim 40 \ ^{\circ}\text{C}$
- •(2) Humidity : 35 ~ 75 % RH
- •(3) Period : 6 months
- •(4) Control of ventilation and temperature is necessary.
- •(5) Please make sure to protect the product from strong light exposure, water or moisture. Be careful for condensation.
- •(6) Store in a polyethylene bag with sealed so as not to enter fresh air outside in it.
- •(7)Do not store the LCD near organic solvents or corrosive gasses.
- •(8) Please keep the Modules/OC/FOG at a circumstance shown below Fig.



11.6 Precautions for Protection Film

• (1) Remove the protective film slowly, keeping the removing direction approximate

30-degree not vertical from panel surface, If possible, under ESD control device like ion blower, and the humidity of working room should be kept over 50%RH to reduce the risk of static charge.

• (2) In handling the LCD, wear non-charged material gloves. And the conducting wrist to the earth and the conducting shoes to the earth are necessary.

11.7 Appropriate Condition for Display

•(1) Normal operating condition

- Temperature: $0 \sim 40^{\circ}C$
- Operating Ambient Humidity : 10 ~ 90 %
- Display pattern: dynamic pattern (Real display)

- Suitable operating time: under XX hours a day. (Please contract BOE in advance for 7*24hrs or more than suggested Operating time)

-Long-term lighting products recommended regular shutdown

•(2) Special operating condition

If the product will be used in extreme conditions such as high temperature, humidity, display patterns or 7*24hrs operation time etc.., It is strongly recommended to contact BOE for Application engineering advice. Otherwise, its reliability and function may not be guaranteed.

•(3)Black image or moving image is strongly recommended as a screen save.

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• (4) Lifetime in this spec. is guaranteed only when commercial display is used according to operating usages.

• (5) Please contract BOE in advance when you want to switch between portrait and landscape screen.

- (6) Please contact BOE in advance for outdoor operation.
- (7) Please contact BOE in advance when you display the same pattern for a long time.
- (8) If the Module keeps displaying the same pattern for a long period of time, the image may be "sticked" to the screen. To avoid image sticking, it is recommended to use a screen saver.
- (9) Do not exceed the absolute maximum rating value. (supply voltage variation, input voltage variation, variation in part contents and environmental temperature, and so on) Otherwise the Module may be damaged.
- (10) Dew drop atmosphere should be avoided.
- (11) The storage room should be equipped with a good ventilation facility and avoid to expose to corrosive gas, which has a temperature controlling system.
- (12) When expose to drastic fluctuation of temperature (hot to cold or cold to hot) ,the LCD may be affected; Specifically, drastic temperature fluctuation from cold to hot ,produces dew on the LCD's surface which may affect the operation of the polarizer and the LCD.
- (13) Response time will be extremely delayed at lower temperature than the operating temperature range and on the other hand at higher temperature LCD may turn black at temperature above its operational range. However those phenomena do not mean malfunction or out of order with the LCD. The LCD will revert to normal operation once the temperature returns to the recommended temperature range for normal operation

11.8 Others

A. LC Leak

- If the liquid crystal material leaks from the panel, it is recommended to wash the LC with acetone or ethanol and then burn it.
- In case of contact with hands, skin or clothes, it has to be washed away thoroughly with soap.
- If LC in mouth, mouth need to be washed, drink plenty of water to induce vomiting and follow medical advice.
- If LC touch eyes, eyes need to be washed with running water at least 15 minutes.
- **B.** Rework
- When returning the module for repair or etc., Please pack the module not to be broken. We recommend to use the original shipping packages.

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DQL	TFT LCD PRODUCT	P1.0	2024.04.22	
12.0 LABEL (1) Product label				
F	<u> 48</u>	1		
	BOE GV185FHM-N10- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	FG CODE: ■ MDL ID ■ MDL ID	GV185FHM-N10 条纹码	

MDL ID 编码规则

序列号	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
代码	Х	Х	Р	3	5	2	7	Х	х	Х	Х	0	0	1	Е	E	J
描述	描述 生		等级 S,A,P,Q 等	工厂 B3	ź	Ŧ	月	F	FG Cod	e后四位	Ì		3	流/ 6进制(:	K码 无I和C))	

年: 2015—15, 2016—16 2020---20, 2021---21..... 月: 1~12月→ 1~9, X, Y, Z

(2) High voltage caution label

\land	HIGH VOLTAGE	COLD CATHODE FLUORESCENT LAMP IN LCD
4	CAUTION	PANEL CONTAINS A SMALL AMOUNT
	RISK OF ELECTRIC SHOCK, DISCONNECT THE ELECTRIC POWER BEFORE SERVICING	OF MERCURY, PLEASE FOLLOW LOCAL OR-
		DINANCES OR REGULATIONS FOR DISPOSAL.
	RISK OF ELECTRIC SHOCK, DISCONNECT THE ELECTRIC POWER BEFORE SERVICING	OF MERCURY, PLEASE FOLLOW LOCAL OR DINANCES OR REGULATIONS FOR DISPO

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(3) Box label



Serial number marked part needs to print, show as follows:

- 1. FG-CODE(Before 12 bit) :
- 2. Product quantity
- 3. Box ID
- 4. Date
- 5. FG-Code After four

Total Size:110×55mm

		-
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13.0 PACKING INFORMATION

