



SPECIFICATION OF LCD MODULE

Customer Approval:

☐ Accept

☐ Reject

SAEF TECHNOLOGY LIMITED	SIGNATURE	DATE
PREPARED BY		
CHECKED BY		
APPROVED BY		



13246641106

3384509175

MODULE No.:

REV : A

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SPEC TITLE

DOCUMENT CONTROL SPECIFICATION

DATE : 2011-10-31

DOCUMENT REVISION HISTORY

Sample Version	Doc. Version	DATE	DESCRIPTION	CHECKED BY
01	A	2011-10-31	First Release.	



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1. GENERAL DESCRIPTION:

Display & LCD Type: 240* (RGB) *320,TFT-Panel

Viewing Direction: 12 O'clock

Backlight Type: White LED

2. MECHANICAL SPECIFICATIONS:

ITEM	SPECIFICATION	UNIT
DISPLAY SIZE	2.0 240X320(RGB)	inch
OUTLINE DIMENSIONS	37.68*51.3*2.25	mm
DRIVER IC	HX 8347D	-
INTERFACE TYPE	MPU 8/16-Bit	-

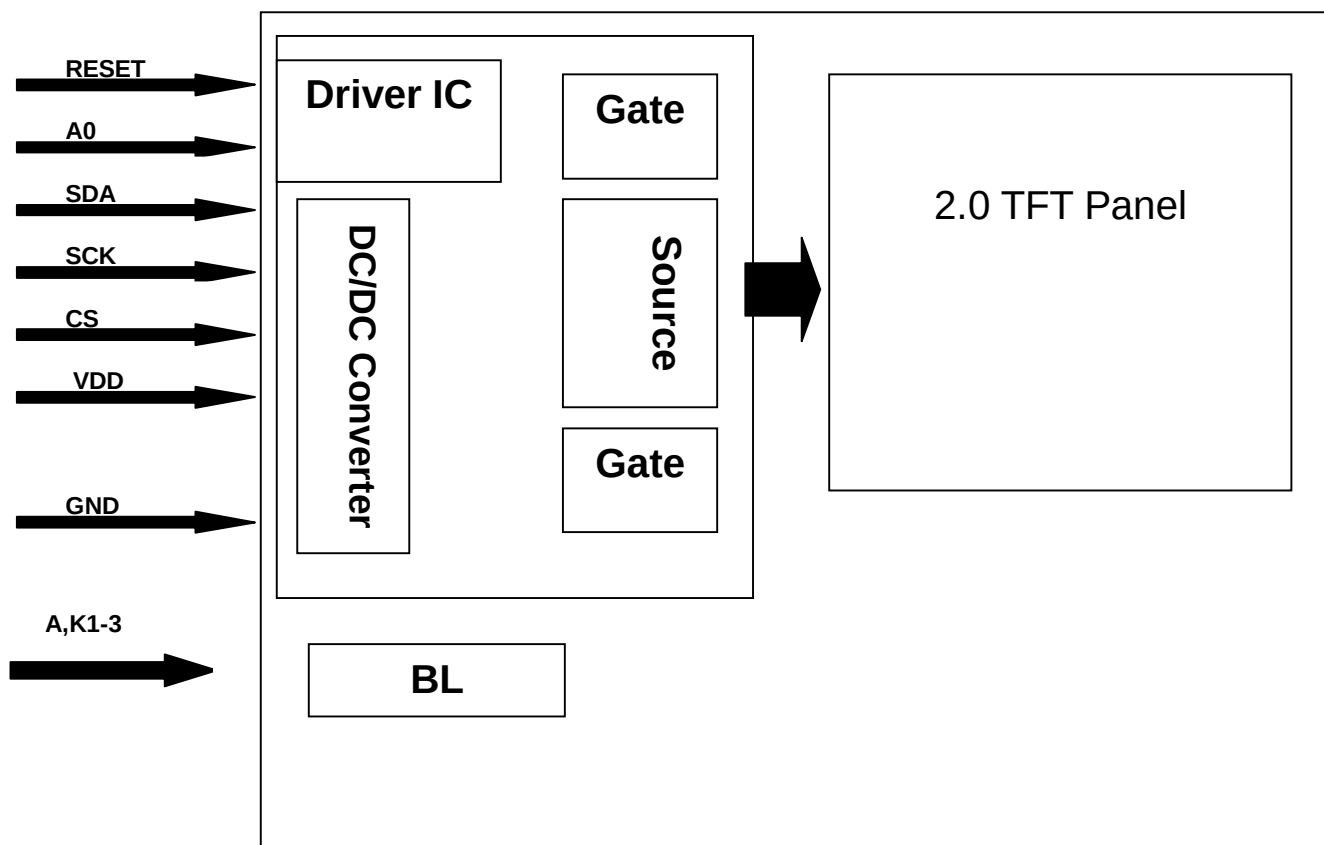
*See attached drawing for details.



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3.BLOCK DIAGRAM:





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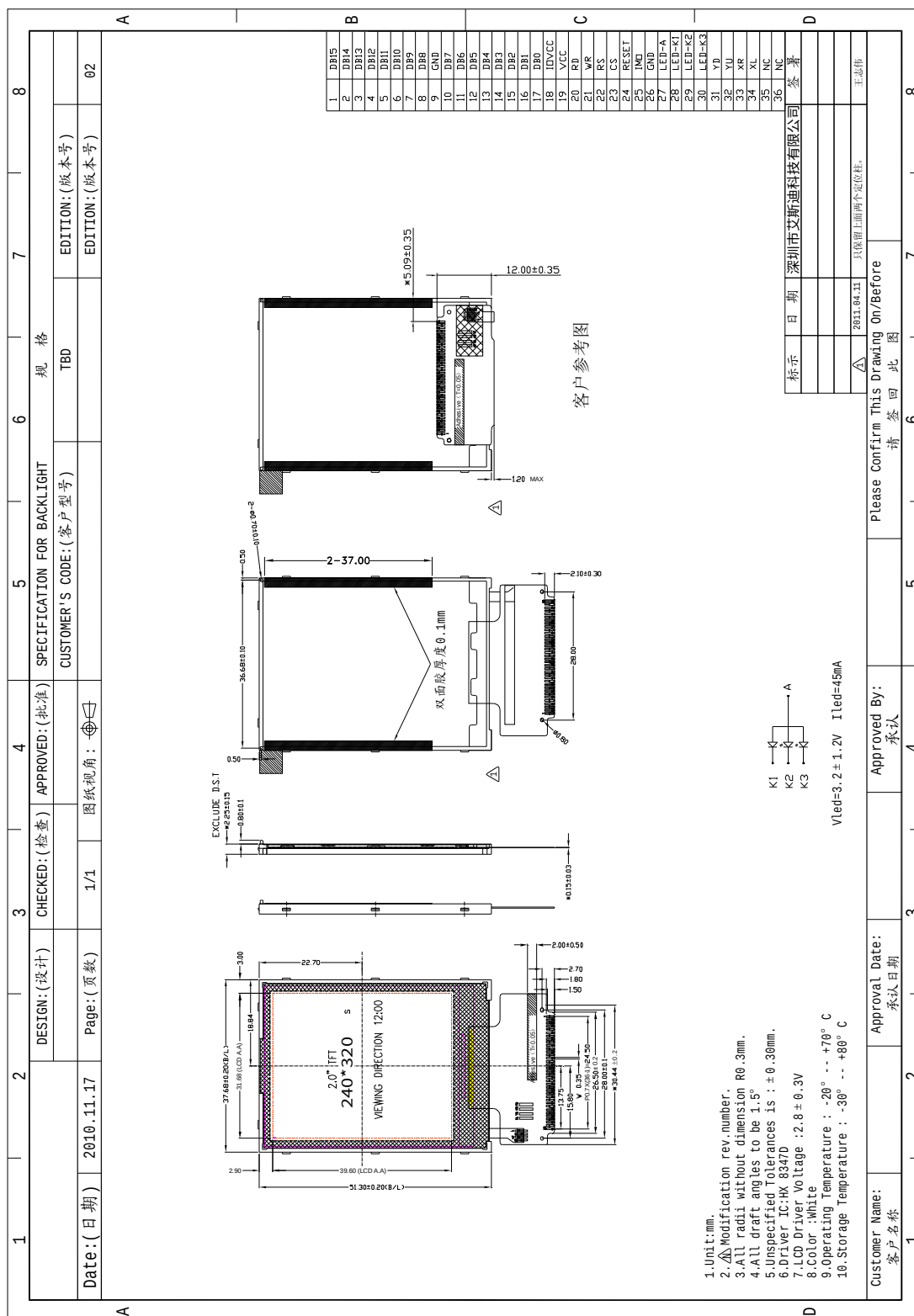
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4.DIMENSIONAL OUTLINE:





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5. PIN DESCRIPTION:

NO.	PIN NAME	I/O	Description
1-8	DB15-DB8	I	Display Data input
9	GND	I	Ground
10-17	DB7-DB0	I	Display Data input
18	VDDIO	I	Power Supply 2.8V/1.8V Voltage
19	VDD	I	Power Supply 2.8V Voltage
20	RD	I	Read strobe signal input pin
21	WR	I	Write strobe signal input pin
22	RS	I	Register select pin
23	CS	I	Input pin for chip selection signal
24	RESET	I	Reset pin
25	IM0	I	MPU Select signal input pin
26	GND	I	Ground
27	LEDA	O	LED Anode
28	LEDK3	O	LED Cathode
29	LEDK2	O	LED Cathode
30	LEDK1	O	LED Cathode
31	YD	I	Touch Panel input signal
32	XL	I	Touch Panel input signal
33	YU	I	Touch Panel input signal
34	XR	I	Touch Panel input signal
35	NC	-	Set Open
36	NC	-	Set Open

Note:

6. MAXIMUM ABSOLTE LIMIT:

Item	Symbol	Value	Unit
Power supply voltage for logic	V_{DD}	1.6~3.3	V
Input voltage	V_{in}	$V_{DD}+0.3$	V
Operating temperature	T_{opr}	-20 to 70	°C
Storage temperature	T_{stg}	-30 to 80	°C

Note: Note1: Absolute maximum rating is the limit value beyond which the IC maybe broken.
 They do not assure operations.

Note2: Background color changes slightly depending on ambient temperature. This Phenomenon is reversible.

$T_a \leq 70^{\circ}\text{C}$: 75%RH max

$T_a > 70^{\circ}\text{C}$: absolute humidity must be lower than the humidity of 75%RH at 70°C

Note3: T_a at -30°C will be <48hrs, at 80°C will be <120hrs

7.ELECTRICAL CHARACTERISTICS

7-1 DC Characteristics ($V_{DD}=2.8\text{V}$, $T_a=25^{\circ}\text{C}$)

Item	Symbol	Min	Type	Max	Unit	Test condition
Operating voltage	V_{DD}	2.6	2.8	3.3	V	-
Supply current	I_{DD}	-	-	5	mA	$V_{DD}=2.8\text{V}$, $T_a=25^{\circ}\text{C}$
Input voltage	V_{IH}	0.8VDD	-	VDD	V	-
	V_{IL}	0	-	0.2VDD	V	
Input leakage current	I_{IL}	-1.0	-	1.0	μA	$V_{IN}=V_{DD}$ or V_{SS}

Note: Voltage greater than above may damage the module.

All voltages are specified relative to $V_{SS}=0\text{V}$.

7-2 Backlight Electrical-optical Characteristics

1. Stander Lamp Styles (Edge Lighting Type):

The LED chips are distributed over the edge light area of the illumination unit, which gives the less power consumption:

2. The Main Advantages of the LED Backlight are as following:

2.1 The brightness of the backlight can simply be adjusted by a resistor or a potentiometer.

3. Data About LED Backlight:

