

1. Features

The features of LCD are as follows

- * Display mode : FSTN/Transflective/Positive/Antiglare
- * Drive IC : UC1601S
- * Interface Input Data : I²C Serial
- * Driving Method : 1/33Duty, 1/6Bias
- * Viewing Direction : 10:30 O'clock
- * Backlight : Without

2. MECHANICAL SPECIFICATIONS

Item	Specification	Unit
Module Size	45.86(W) x36(H) x 2.85 (Max) (T) mm	
Number of Dots	64x32 Dots	
Viewing Area	39.86(W) x23(H)	mm
Activity Area	36.44 (W)x19.48 (H)	mm
Dot Size	0.53(W) x 0.57(H)	mm
Dot Pitch	0.57(W) x0.61(H)	mm

3. ELECTRICAL SPECIFICATIONS

3-1 ABSOLUTR MAZIMUM RATINGS (Ta = 25 °C)

Item	Symbol	Standard Value			Unit
		Min.	Typ.	Max.	
Supply Voltage For Logic	V _{DD} – V _{SS}	-0.3	-	4.0	V
Supply Voltage For LCD Drive	V _{OP} = V _{DD} –V _{LCD}	-0.3	-	13.2	V
Input Voltage	V _{in}	-0.4	-	V _{DD} +0.3	V
Operating Temp.	T _{op}	-30	-	+85	°C
Storage Temp.	T _{st}	-40	-	+85	°C

*. NOTE: The response time will be extremely slow when the operating temperature is around -10°C, and the back ground will become darker at high temperature operating.

3-2 ELECTRICAL CHARACTERISTICS

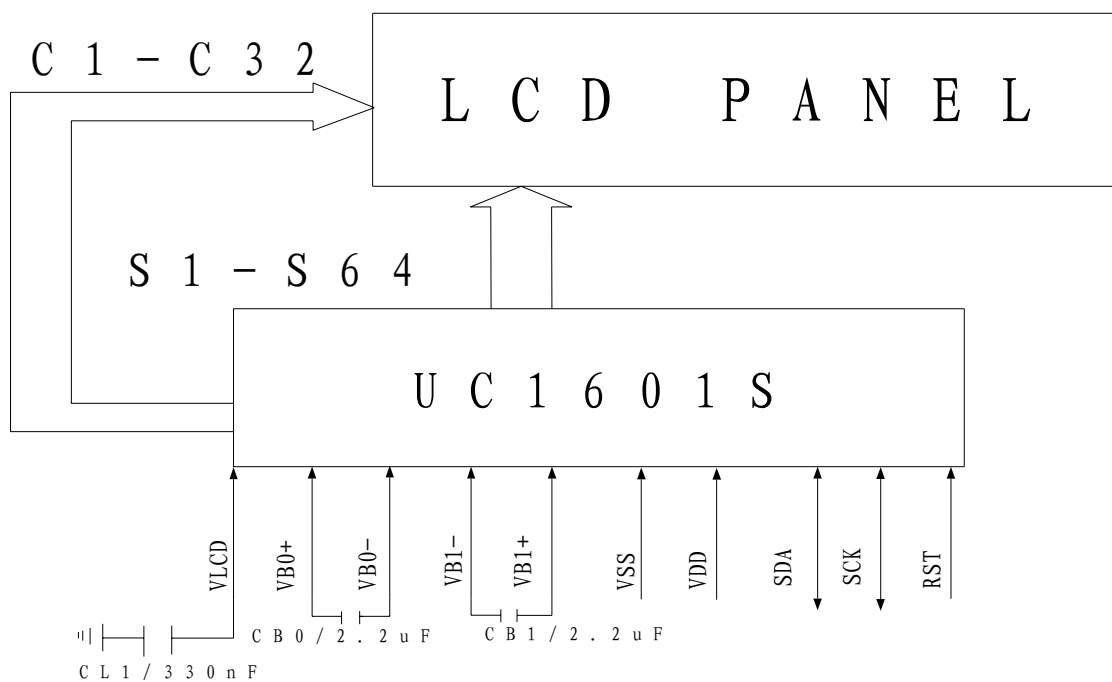
Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit	
Logic supply Voltage	$V_{DD} - V_{SS}$	$T_a = 25\text{ }^\circ\text{C}$ $V_{DD}=3\text{V} \pm 10\%$	2.7	3.0	3.3	V	
LCD Drive Voltage	V_{LCD}		6.1	6.4	6.7	V	
Input Voltage	"H" Level		V_{IH}	0.85VDD	-	-	V
	"L" Level		V_{IL}	-	-	0.15VDD	V
Frame Frequency	f_{FLM}		-	64	-	Hz	
Current Consumption	I_{DD}		-	0.22	-	mA	

4. TERMINAL FUNCTIONS AND BLOCK DIAGRAM

4-1. INTERFACE PIN FUNCTION DESCRIPTION

PIN NO.	SYMBOL	FUNCTIONS
1	VLCD	Supply voltage for LCD
2	VB0+	LCD Bias Voltages
3	VB0-	
4	VB1-	
5	VB1+	
6	VSS	Ground (0V)
7	VDD	Supply voltage for logical circuit
8	SDA	Data input for serial mode
9	SCK	Serial clock input for serial mode
10	RST	Reset signal

4-2. BLOCK DIAGRAM



OUTLINE DIMENSION

