



**Features:**

- Resolution: 160S\*160C Dots
- Duty ratio: 1/160
- LCD option: FSTN
- Backlight option(H2/H1mm): EL(3.4/7.0)
- Controller IC: S1D13305
- EL Driver IC built-in
- DC-DC converter and temperature compensation circuit built-in

**Optional:**

- Touch panel version available

Pin Assignment		
Pin No.	Symbol	Function
1	/RST	Controller reset
2	/RD	This signal acts as the active-LOW read strobe.
3	/WR	This signal acts as the active-LOW write strobe.
4	/CS	Chip enable for the module
5	A0	Command/Data select
6-13	DB0~DB7	Data bus (DB0=LSB, DB7=MSB)
14	Vdd	Power supply for logic (+5V)
15	VSS	Signal ground (GND)
16	Adj1	The pin for the contrast settled by customer
17	Adj2	The pin for the contrast settled by customer
18	BLE	H: EL Enable L: EL Disable
19	VEL	Power supply for EL (+)
20	VELG	Power supply for EL (-)

Absolute Maximum Rating								
Item	Symbol	Condition	Min.	Max.	Units			
Supply for logic voltage	Vdd-Vss	25°C	-0.3	7.0	V			
LCD driving supply voltage	Vee-Vss	25°C	-0.3	30.0	V			
Input Voltage	VIN	25°C	-0.3	VDD+0.3	V			
Electrical Characteristics								
Item	Symbol	Condition	Min.	Typical	Max.	Units		
Power supply voltage	Vdd-Vss	25°C	4.75	5.0	5.5	V		
LCD operation voltage	VOP	Top	N	W	N	W	V	
		-20°C	-	-	-	20.6	-	V
		0°C	-	-	-	-	-	V
		25°C	-	-	-	19.0	-	V
		50°C	-	-	-	-	-	V
		70°C	-	-	-	17.0	-	V
LCM current consumption (No B/L)	Idd	Vdd=5V	-	20	-	mA		
Backlight current consumption	EL	VEL=5V	-	40.0	-	mA		