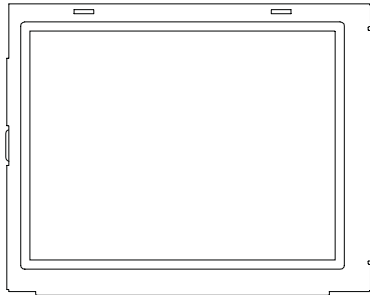


## 320 x 240 Dots Graphic LCD



### FEATURES

- 320 x 240 dots FSTN
- 4-bit data bus
- Built-in EL backlight & EL inverter
- + 5V power supply
- 1/240 duty cycle

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	92.2 (H) x 73.3 (W) x 7.8	mm
Viewing Area	81.4 x 62.2	mm
Dot Size	0.22 x 0.22	mm
Dot Pitch	0.24 x 0.24	mm

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	-	5.0	6.5	V
Input Voltage	VI	0.8V <sub>DD</sub>	-	VDD	V

**NOTE:** VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	L level	0.8V <sub>DD</sub>	-	V <sub>DD</sub>	V
	VIO	H level	V <sub>SS</sub>	-	0.2V <sub>DD</sub>	V
Supply Current	IDD	VDD = 5V	-	-	-	mA
Recommended LC Driving Voltage for Normal Temp.	VDD - V0	0°C	-	-	-	V
Version Module		25°C	-	21.6	-	
		50°C	-	-	-	
LED Forward Voltage	VF	25°C	-	-	-	V
LED Forward Current	IF	25°C	-	-	-	mA
Power Consumption	-	VDD = 5V VEE = 21.6V VEL = 5V	-	0.52	-	mA

PIN NUMBER	SYMBOL	FUNCTION
1	CL2 (SCP)	Data Shift Pulse
2	CL1 (LP)	Data Latch Pulse
3	FLM	Scan Start-Up Signal
4	M (N.C)	Frame Reverse Signal (Alternate Signal)
5	DB0	Display Data
6	DB1	Display Data
7	DB2	Display Data
8	DB3	Display Data
9	Vee	Power Supply for LCD (+V)
10	Vdd	Power Supply for LOGIC
11	Vss	Power Supply (0V)
12	BLE	H:EL Enable L:EL Disable
13	V <sub>ELG</sub>	Power Supply for EL (GND, 0V)
14	V <sub>EL</sub>	Power Supply for EL (+)

**DIMENSIONS** in millimeters

