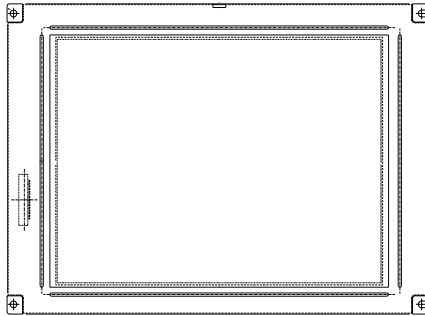


## 640 x 480 Dots Graphic LCD



### FEATURES

- 640 x 480 dots FSTN
- 8-bits data bus
- + 5V power supply
- 1/240 duty cycle
- FSTN negative type only

### MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	197.0 x 145.0	mm
Viewing Area	153.0 x 115.7	mm
Dot Size	0.217 x 0.217	mm
Dot Pitch	0.237 x 0.237	mm

### ABSOLUTE MAXIMUM RATING

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	–	5.0	–	V
Input Voltage	VEE	–	2.3	–	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
	VIO	H level	–	–	0.2V <sub>DD</sub>	V
Recommended LC Driving	VDD - V0	0°C	–	24.7	–	V
Voltage for Normal Temp.		25°C	–	23.0	–	
Version Module		50°C	–	22.5	–	
LED Forward Voltage	VF	25°C	–	–	–	V
LED Forward Current	IF	25°C	–	–	–	mA
Power Consumption	–	VDD = 5V VEE = 25.5V	–	2.6	–	mA

PIN NUMBER	SYMBOL	FUNCTION
1	FP	Frame Pulse
2	LP	Latch Pulse in One Line
3	SCP	Shift Clock Pulse for X-Drivers
4	DISP	Sequence Signal of Power Supply (L:OFF)
5	Vdd	Power Supply for Contrast Control
6	GND	Ground (0V)
7	Vee	Power Supply for LCD
8	UD0	Data Input for Upper Screen (LSB)
9	UD1	Data Input for Upper Screen
10	UD2	Data Input for Upper Screen
11	UD3	Data Input for Upper Screen
12	LD0	Data Input for Lower Screen
13	LD1	Data Input for Lower Screen
14	LD2	Data Input for Lower Screen
15	LD3	Data Input for Lower Screen (MSB)

**DIMENSIONS** in millimeters