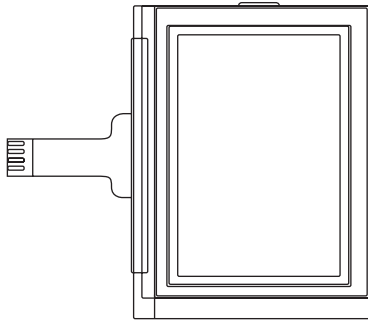


240 x 160 Dots Graphic LCD



FEATURES

- 240 x 160 dots FSTN
- 4-bit data bus
- + 5V power supply
- 1/160 duty cycle
- Touch panel option

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	74.6x 56.1	mm
Viewing Area	62.2 x 43.5	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 _{DD}	-	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 _{DD}	V _{DD}	-	V
	VIO	H level	V _{SS}	0.2V _{DD}	-	V
Supply Current	IDD	VDD = + 5V	-	-	-	mA
Recommended LC Driving Voltage for Normal Temp.	VDD - V0	0°C	19.4	20.5	21.6	V
Version Module		25°C	18.9	19.0	20.1	
		50°C	16.9	18.0	19.1	
Power Consumption	-	VDD = 5V VSS = 19.5V	-	0.12	-	mA
EL	-	Vel = 110VAC; 400Hz	-	-	5.0	mA

PIN NUMBER	SYMBOL	FUNCTION
1	V5	Bias Voltage for Non-select
2	V2	Bias Voltage for Non-select
3	VEE	Power Supply for LCD
4	VDD	Power Supply for LOGIC
5	FR	Frame Start Signal
6	VGND	Ground
7	LOAD	Data Latch Pulse
8	VSS	Logic GND
9	DF	Switch Signal Input for LC Drive Waveform
10	DOFF	H: Display DN,L: Display OFF
11	CP	Data Shift Pulse
12	V4	Bias Voltage for Non-select
13	V3	Bias Voltage for Non-select
14	D3	Data Bus 3
15	D2	Data Bus 2
16	D1	Data Bus 1
17	D0	Data Bus 0
18	NC	No Connection

DIMENSIONS in millimeters

