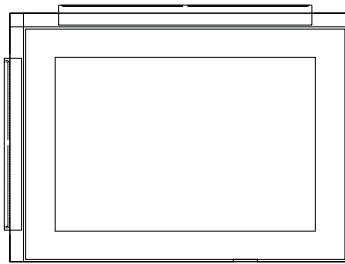


240 x 160 Dots LCD



FEATURES

- 240 x 160 dots FSTN
- 4-bit data bus
- + 5V power supply
- 1/160 duty cycle
- Built-in EL backlight & EL driver
- Touch panel option

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	75.85 x 56.7	mm
Viewing Area	57.58 x 38.38	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. Version Module	VDD - V0	0°C	19.4	20.5	21.6	V
		25°C	17.9	19.0	20.1	
		50°C	16.9	18.0	19.1	
Power Consumption	–	VDD = 5V VSS = 19.5V	–	0.12	–	mA
EL	IEL	Vel = 110VAC; 400Hz	–	–	5.0	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	Data Bus Line
6	DB1	Data Bus Line
7	DB2	Data Bus Line
8	DB3	Data Bus Line
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	VELG	Power Supply for EL (GND, 0V)
14	VEL	Power Supply for EL (+)

DIMENSIONS in millimeters

