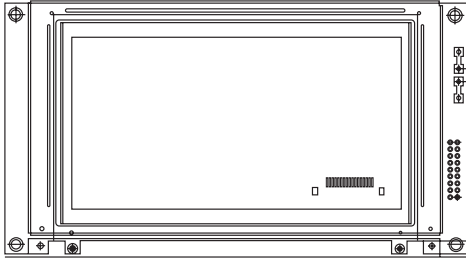


240 x 128 Dots LCD



FEATURES

- No controller
- + 5V power supply
- 1/64 duty cycle
- Built in N.V.

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	170.0 x 93.6	mm
Viewing Area	128.0 x 75.0	mm
Dot Size	0.43 x 0.43	mm
Dot Pitch	0.45 x 0.45	mm

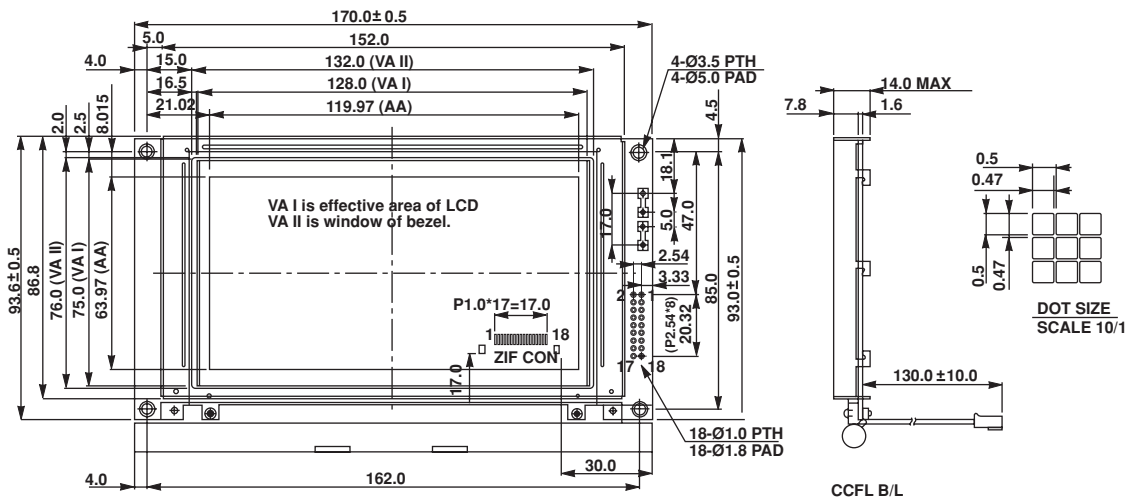
ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	- 0.3	-	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	L level	$0.7V_{DD}$	-	V_{DD}	V
	VIO	H level	0	-	$0.3V_{DD}$	V
Supply Current	IDD	VDD = 5V	-	55	60	mA
Recommended LC Driving Voltage for Normal Temp. Version Module	VDD - V0	- 20°C	-	-	-	V
		0°C	20.3	21.4	21.8	
		25°C	12.1	19.1	22.1	
		50°C	17.7	18.9	20.1	
		70°C	9.1	11.6	12.8	
LED Forward Voltage	VF	25°C	-	4.2	4.6	V
LED Forward Current	IF	25°C	-	900	1800	mA
CCFL	VF	25°C	-	250	590	V _{rms}
	IF	25°C	-	-	5.5	mA
EL	IEL	Vel = 110VAC; 400Hz	-	-	5.0	mA

PIN NUMBER	SYMBOL	FUNCTION
1	FGND	Frame GND
2	DB0	H/L Data Bus Line
3	DB1	H/L Data Bus Line
4	DB2	H/L Data Bus Line
5	DB3	H/L Data Bus Line
6	DISPOFF	Display Off when Low Level
7	FLM	Operating Voltage for LCD
8	M	Control Signal for AC Driving
9	LP	Display Data Slatch
10	CP	Display Data Shift
11	Vdd	Power Supply for (+ 5V)
12	Vss	Power Supply for (GND)
13	Vee	Negative Voltage Output
14	Vo	Contrast Adjustment
15	RV	H/L Data Bus Line
16	NC	No Connection
17	A	Power Supply for B/L
18	K	Power Supply for B/L

DIMENSIONS in millimeters





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