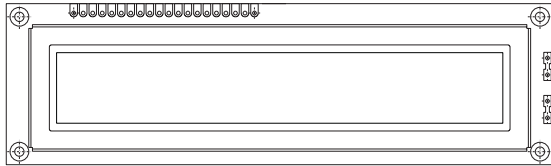


202 x 32 Dots Graphic LCD



FEATURES

- Built-in oscillation
- Built-in controller (SED1520 or Equivalent)
- 1/32 duty cycle
- 2.85 - 5V power supply

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	146.0 x 43.0	mm
Viewing Area	123.0 x 23.0	mm
Dot Size	0.57 x 0.57	mm
Dot Pitch	0.59 x 0.59	mm

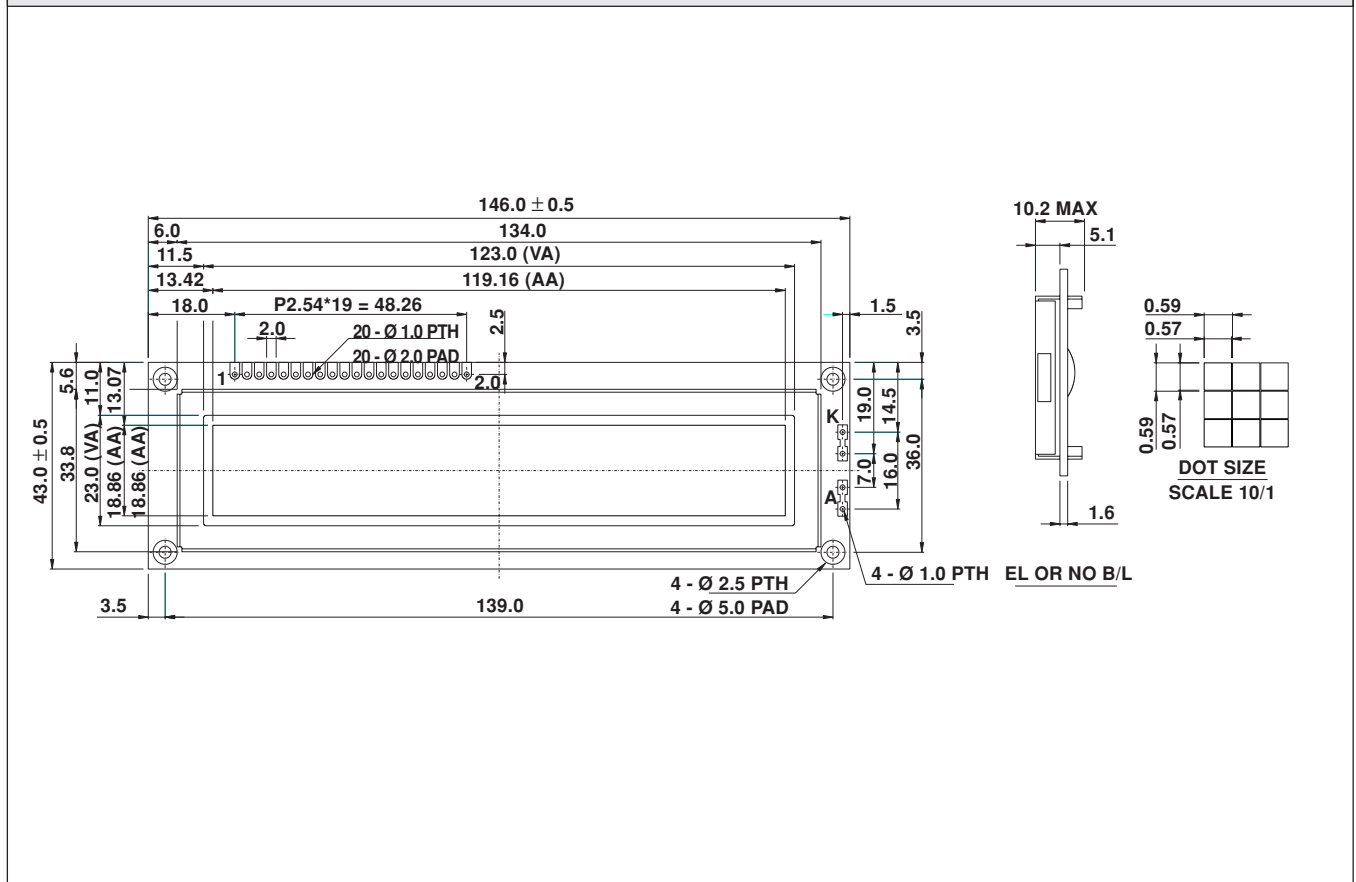
ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	- 0.3	–	8.0	V
Input Voltage	VI	- 0.3	–	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	VDD = 3V ± 5V	2.7	3.0	3.3	V
Supply Current	IDD	VDD = 3V	–	1.0	1.5	mA
Recommended LC Driving Voltage for Normal Temp.	VDD - V0	0°C	5.7	6.0	6.3	V
Version Module		25°C	4.6	4.7	4.8	
		50°C	3.3	3.4	3.5	
LED Forward Voltage	VF	25°C	1.7	2.1	2.5	V
LED Forward Current	IF	25°C	–	100	200	mA
El Power Supply Current	IEL	Vel = 110VAC;400Hz	–	–	5.0	mA

PIN NUMBER	SYMBOL	FUNCTION
1	Vss	GND
2	Vdd	Power Supply (+ 3V, 5V)
3	Vo	Contrast Adjustment
4	A0	RD for 80 Serial/E for 68 Serial
5	R/W	WR for 80 Serial R/W for 68 Serial
6	CS1	Enable Chip 1
7	DB0	Data Bus Line
8	DB1	Data Bus Line
9	DB2	Data Bus Line
10	DB3	Data Bus Line
11	DB4	Data Bus Line
12	DB5	Data Bus Line
13	DB6	Data Bus Line
14	DB7	Data Bus Line
15	Vee	Negative Voltage Output
16	Reset	Reset Signal
17	A	+ 4.2V for LED
18	K	Power Supply for B/L (0V)
19	CS2	Enable Chip 2
20	CS3	Enable Chip 3

DIMENSIONS in millimeters





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