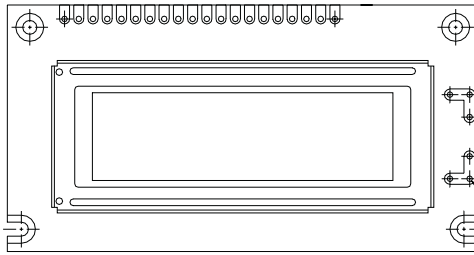


122 x 32 Dots Graphic LCD



FEATURES

- Available for internal oscillation 2KHz
- SED 1520, or equivalent
- 1/32 duty cycle
- N.V. optional for + 3V power supply

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	84.0 x 44.0	mm
Viewing Area	60.0 x 18.0	mm
Dot Size	0.4 x 0.45	mm
Dot Pitch	0.44 x 0.49	mm

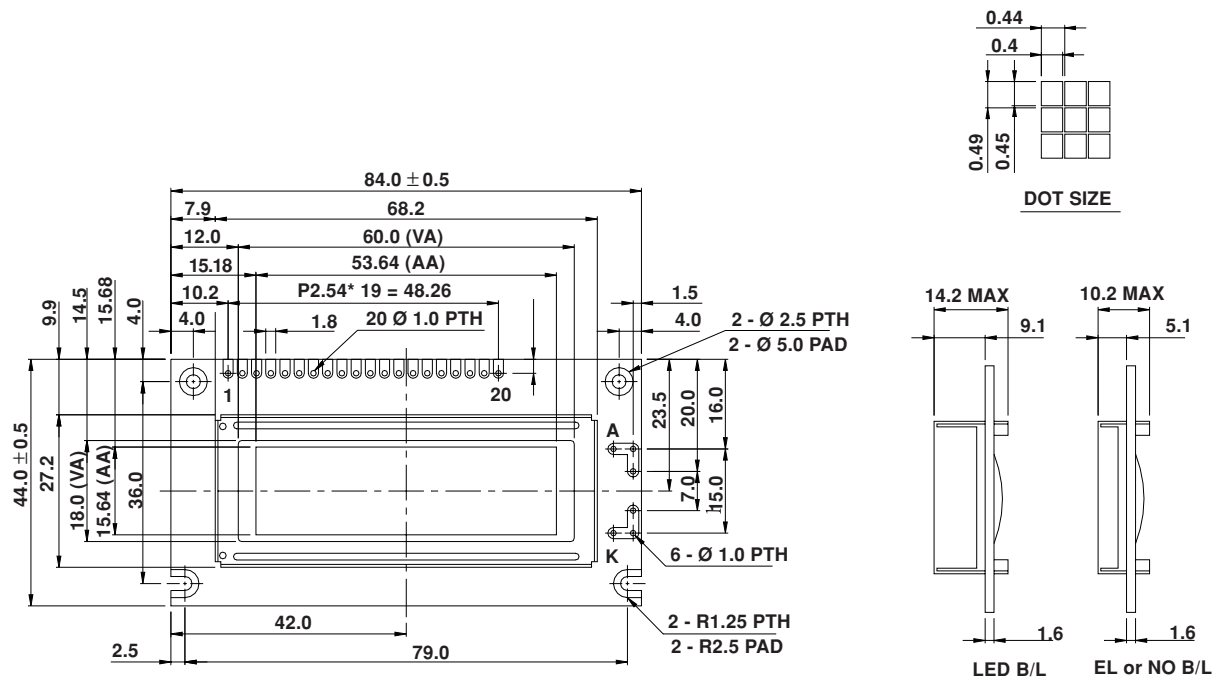
ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5	5.25	V
Input Voltage	VI	0	–	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	VDD = + 5V	4.5	5.0	5.5	V
Supply Current	IDD	VDD = 5V	–	0.6	0.8	mA
Recommended LC Driving Voltage for Normal Temp.	VDD - V0	0°C	4.7	4.8	4.9	V
Version Module		25°C	4.6	4.7	4.8	
		50°C	4.3	4.4	4.6	
LED Forward Voltage	VF	25°C	–	4.2	4.6	V
LED Forward Current	IF	25°C	–	120	240	mA
EL Power Supply Current	IEL	Vel = 110VAC:400Hz	–	–	5.0	mA

PIN NUMBER	SYMBOL	FUNCTION
1	Vss	GND
2	Vdd	(+ 5V)
3	Vo	Contrast Adjustment
4	Ao	H →Data L →Instruction
5	CS1	L →Chip 1 Enable
6	CS2	L →Chip 2 Enable
7	NC	No Connection
8	NC	No Connection
9	R/W	WR for 80 Serial R/W for 68 Serial
10	DB0	Data Bus Line
11	DB1	Data Bus Line
12	DB2	Data Bus Line
13	DB3	Data Bus Line
14	DB7	Data Bus Line
15	DB5	Data Bus Line
16	DB6	Data Bus Line
17	DB7	Data Bus Line
18	RES	H →L Reset the LCM
19	A/Vee	4.2V for LED/Negative Voltage Output
20	K	Power Supply for B/L (0V)

DIMENSIONS in millimeters





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