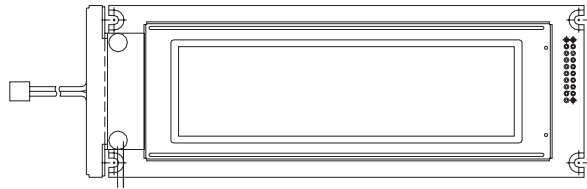


240 x 64 Dots Graphic LCD



FEATURES

- Built-in controller (LC7981 or equivalent)
- + 5V power supply
- 1/64 duty cycle
- Built-in N/V

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	180.0 x 65.0	mm
Viewing Area	133.0 x 39.0	mm
Dot Size	0.49 x 0.49	mm
Dot Pitch	0.53 x 0.53	mm

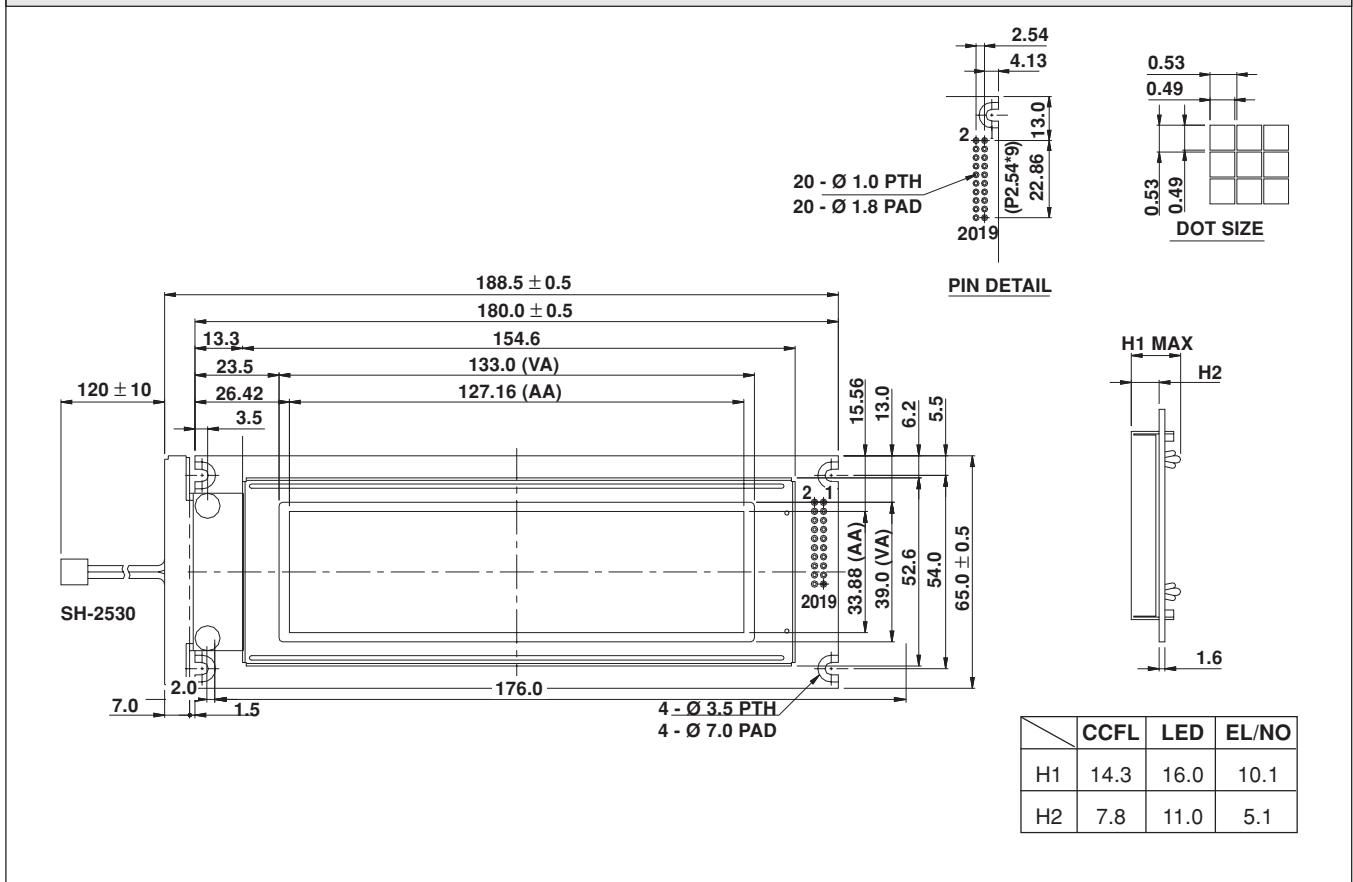
ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	- 0.3	-	VDD	V

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	-	18.6	24.0	mA
Recommended LC Driving Voltage for Normal Temp. Version Module	VDD - V0	- 20°C	13.0	13.5	14.1	V
		0°C	12.5	13.1	13.7	
		25°C	12.1	12.7	13.3	
		50°C	11.1	12.2	13.0	
		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	-	450	900	mA
CCFL	VF	25°C	-	215	650	Vms
	IF	25°C	-	-	5.0	mA
EL	IEL	Vel = 110VAC; 400Hz	-	-	5.0	mA

PIN NUMBER	SYMBOL	FUNCTION
1	Vss	Power Supply (GND)
2	Vdd	Power Supply (+ 5V)
3	Vo	Contrast Adjustment
4	RS	Data/Instruction Select
5	R/W	Data Read Write
6	E	Enable Signal
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	CS	Chip Select
16	Res	Rest Signal
17	Vee	Negative Voltage Output
18	NC	No Connection
19	NC	No Connection
20	FGND	Frame GEN (Connected to Bezel)

DIMENSIONS in millimeters





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