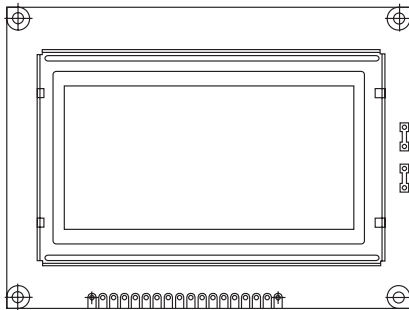


128 x 64 Dots Graphic LCD


FEATURES

- Character mode:
Display BIG5 or GB Chinese font (16 x 16 dots) and ASCII code (8 x 16 dots)
- Graphic mode: 128 x 64 dots
- Built-in controller (ST7920)
- + 5V power supply
- 1/32 duty cycle
- LED can be driven by A and K
- N.V. option

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	93.0 x 70.0	mm
Viewing Area	72.0 x 40.0	mm
Mounting Hole	88.0 x 65.0	mm
Dot Pitch	0.52 x 0.52	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

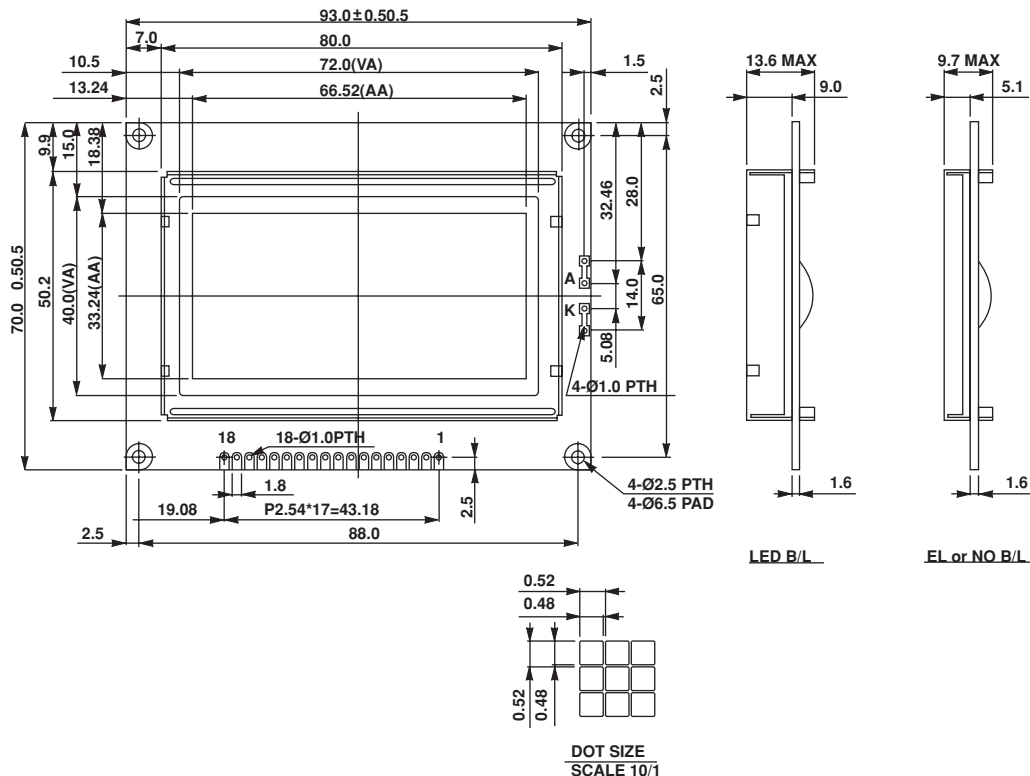
NOTE: VSS = 0 Volt, VDD = 5.0 Volt

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	-	3.6	3.9	mA
Recommended LC Driving Voltage for Normal Temp. Version Module	VDD-V0	0°C	9.7	10.2	10.7	V
		25°C	8.9	9.4	9.9	
		50°C	8.6	9.1	9.6	
LED Forward Voltage	VF	25°C	-	4.2	4.6	V
LED Forward Current	IF	25°C	-	330	660	mA
EL Power Supply Current	IEL	Vel = 110VAC; 400Hz	-	-	5.0	mA

DISPLAY CHARACTER ADDRESS CODE:																
Display Position	1	2	3	4	5	6	7	8	9	10	11	12	13	-	-	16
DD RAM Address	80	81														8F
DD RAM Address	90	91														9F
DD RAM Address	A0	A1														AF
DD RAM Address	B1	B0														BF

PIN NUMBER	SYMBOL	FUNCTION
1	Vss	GND
2	Vdd	Power Supply (+ 5V)
3	NC	NO Connection
4	RS	Register Select Signal
5	R/W	Data Read/Write
6	E	H → L 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	A	Power Supply for B/L
16	K	Power Supply for B/L
17	RST	Reset LCD Module
18	Vout	Negative Voltage Output

DIMENSIONS in millimeters





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