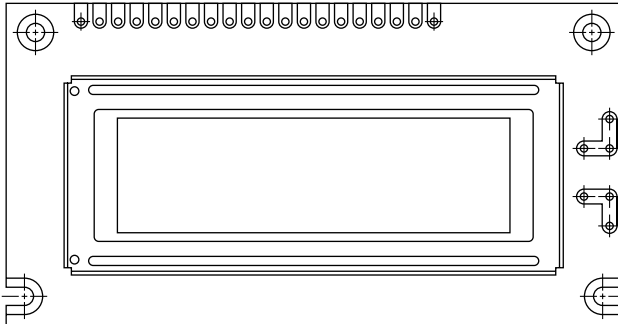


122 x 32 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 122 x 32 dots
- Built-in controller: ST7920
- Duty cycle: 1/32
- Chinese version
- Same size with LCD-122H032A
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	84.0 x 44.0	mm
Viewing Area	60.0 x 18.0	
Dot Size	0.40 x 0.45	
Dot Pitch	0.44 x 0.49	
Mounting Hole	79.0 x 36.0	
Character Size	N/a	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	0	-	7.0	V
Input Voltage	V_I	0	-	V_{DD}	

Note

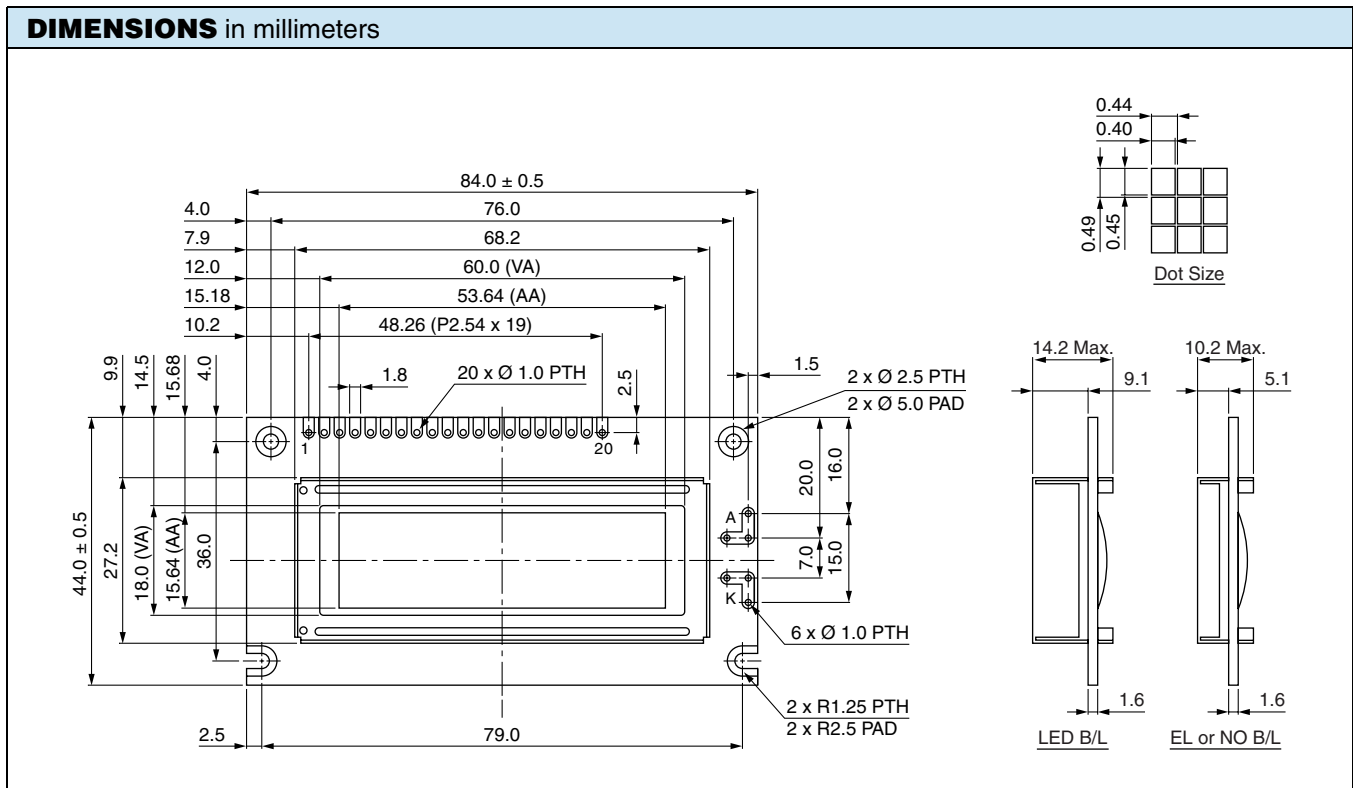
- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	V_{DD}	-	4.5	5.0	5.5	V
Supply Current	I_{DD}	$V_{DD} = +5$ V	1.2	1.4	1.8	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	-20 °C	-	-	5.2	V
		25 °C	-	4.4	-	
		70 °C	3.7	-	-	
CCFL Starting Voltage	V_{FLS}	25 °C	-	-	-	V_{RMS}
CCFL Driving Voltage	V_{FLD}	25 °C	-	-	-	V_{RMS}
CCFL Driving Current	I_{FLD}	$V_{FQ} = 450 V_{RMS}, 30$ kHz	-	-	-	mA_{RMS}
LED Forward Voltage	V_F	25 °C	4.0	4.2	4.4	V
LED Forward Current	I_F	25 °C	90	120	180	mA
EL Power Supply Current	I_{EF}	$V_{EL} = 110 V_{AC}, 400$ Hz	-	-	5.0	mA

OPTIONS									
PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	x	x	x	x		x	x	x	

For detailed information, please see the "Product Numbering System" document.

INTERFACE PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION
1	V _{SS}	Ground
2	V _{DD}	Supply voltage for logic
3	V ₀	Operating voltage for LCD
4	RS	H/L register select signal
5	V _{OUT}	Positive voltage output
6	NC	NC
7	NC	NC
8	E	Enable signal
9	R/W	H: Read data/L: Write data
10	DB0	Data bus line
11	DB1	Data bus line
12	DB2	Data bus line
13	DB3	Data bus line
14	DB4	Data bus line
15	DB5	Data bus line
16	DB6	Data bus line
17	DB7	Data bus line
18	R _{ES}	L: Reset the LCM
19	A	Power supply for B/L (+)
20	K	Power supply for B/L (-)





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