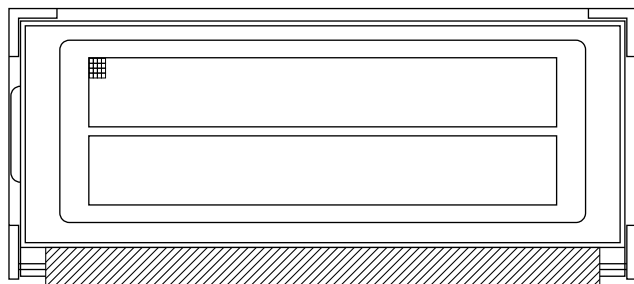


# 122 x 32 Graphic LCD



## FEATURES

- Type: graphic
- Display format: 122 x 32 dots
- Built-in controller: ST7920
- Duty cycle: 1/32
- +5 V power supply
- Chinese version
- Same size with LCD-122H032B
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

## MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module dimension	65.4 x 28.2	mm
Viewing area	54.8 x 19.0	
Dot size	0.36 x 0.41	
Dot pitch	0.40 x 0.45	
Mounting hole	n/a	
Character size	n/a	

## ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power supply	$V_{DD}$ to $V_{SS}$	4.75	5.0	5.25	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	0.8	1.0	1.2	mA
Recommended LC driving voltage for normal temperature version module	$V_{DD}$ to $V_0$	-20 °C	-	-	5.3	V
		25 °C	-	4.8	-	
		70 °C	4.2	-	-	
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	2.0	2.1	2.3	V
LED forward current	$I_F$	25 °C	80	100	130	mA
EL power supply current	$I_{EF}$	$V_{EL} = 110$ $V_{AC}$ , 400 Hz	-	-	5.0	mA

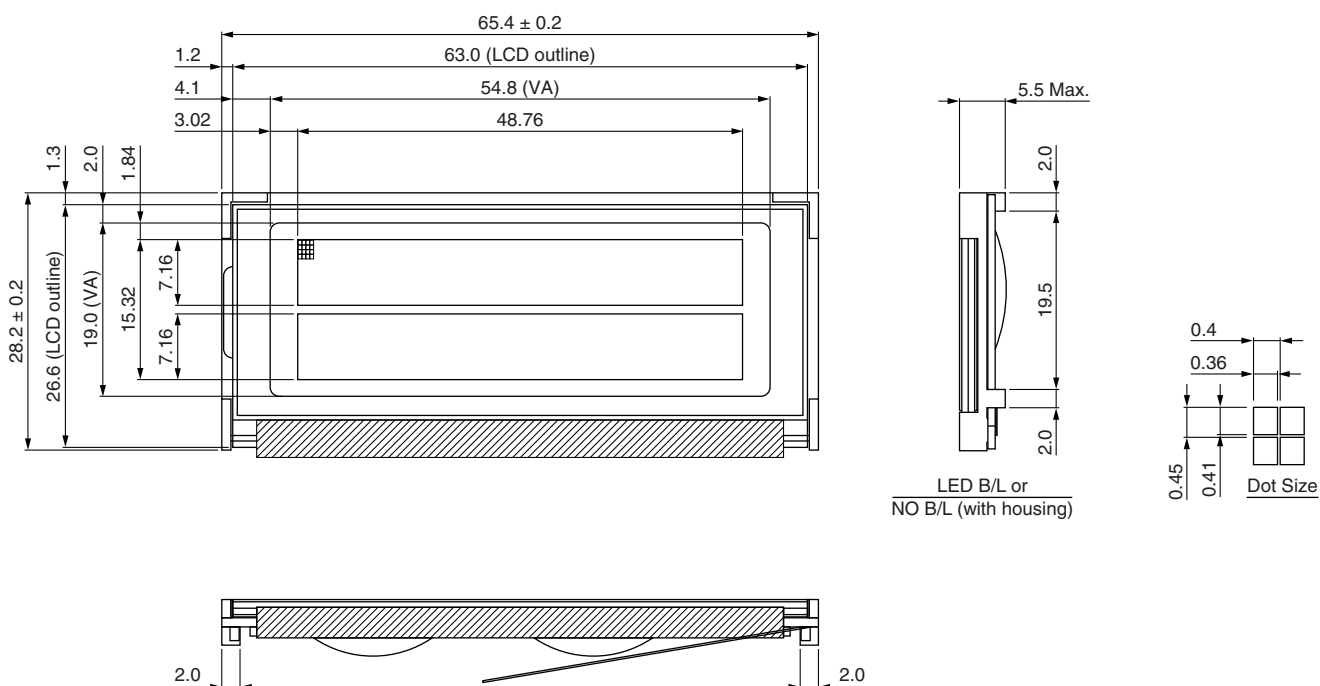
## OPTIONS

PROCESS COLOR						BACKLIGHT			
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
-	X	X	-	X	-	X	-	-	-

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

**INTERFACE PIN FUNCTION**

PIN NO.	SYMBOL	FUNCTION
1	V <sub>DD</sub>	Power supply (+3 V, +5 V)
2	V <sub>SS</sub>	Ground
3	V <sub>0</sub>	Contrast adjustment
4	RES	L: Reset the LCM
5	E	Enable
6	V <sub>OUT</sub>	Positive voltage output
7	R/W	H: read data / L: write data
8	RS	H / L register select signal
9	DB0	Data bus line
10	DB1	Data bus line
11	DB2	Data bus line
12	DB3	Data bus line
13	DB4	Data bus line
14	DB5	Data bus line
15	DB6	Data bus line
16	DB7	Data bus line
17	A	+2.1 V for LED
18	K	Power supply for backlight (0 V)

**DIMENSIONS** in millimeters




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