## LCD-122H032M



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## 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 <u>www.vishay.com/doc?99912</u>

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

ABSOLUTE MAXIMUM RATINGS					
SYMPOL	STAN	UNIT			
STIVIDUL	MIN.	TYP.	MAX.		
$V_{\text{DD}}$ to $V_{\text{SS}}$	4.75	5.0	5.25	V	
VI	0	-	$V_{DD}$	V	
	SYMBOL	SYMBOL STAN	SYMBOL STANDARD V. MIN. TYP.	STANDARD VALUE   MIN. TYP. MAX.   VDD to VSS 4.75 5.0 5.25	

Note

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• V_{SS} = 0 V, V_{DD} = 5.0 V
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ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL CONDITION		STANDARD VALUE				
		MIN.	TYP.	MAX.	UNIT		
Input voltage	V <sub>DD</sub>	-	4.5	5.0	5.5	V	
Supply current	I <sub>DD</sub>	V <sub>DD</sub> = +5 V	0.8	1.0	1.2	mA	
Recommended LC driving voltage for normal temperature version module		-20 °C	-	-	5.3	V	
	$V_{DD}$ to $V_0$	25 °C	-	4.8	-		
		70 °C	4.2	-	-		
CCFL starting voltage	V <sub>FLS</sub>	25 °C	-	-	-	V <sub>RMS</sub>	
CCFL driving voltage	V <sub>FLD</sub>	25 °C		-	-	V <sub>RMS</sub>	
CCFL driving current	I <sub>FLD</sub>	V <sub>FQ</sub> = 450 V <sub>RMS</sub> , 30 kHz -		-	-	mA <sub>RMS</sub>	
LED forward voltage	V <sub>F</sub>	25 °C	2.0	2.1	2.3	V	
LED forward current	I <sub>F</sub>	25 °C 80		100	130	mA	
EL power supply current	I <sub>EF</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 400 Hz 5.0		mA			

OPTIONS									
PROCESS COLOR						BACK	LIGHT		
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
-	х	х	-	х	-	х	-	-	-

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

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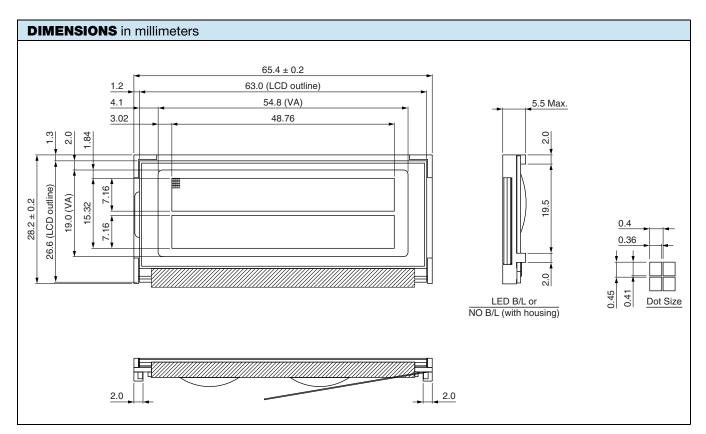


**RoHS** COMPLIANT



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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	К	Power supply for backlight (0 V)		





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