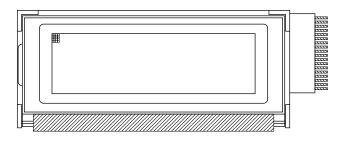


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COMPLIANT

# 122 x 32 Graphic LCD



#### **FEATURES**

• Type: graphic

• Display format: 122 x 32 dots

• Built-in controller: SBN1661G

• Duty cycle: 1/32

Available for internal oscilation 2 kHz

• +5 V power supply only

• The feature of LCD-122H032G is same as LCD-122H032B

• Chinese version: LCD-122H032M

 Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

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	mm			
Dot pitch	0.40 x 0.45	mm			
Mounting hole	n/a				
Character size	n/a				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
I I EIVI	STIVIBUL	MIN.	TYP.	MAX.	UNIT	
Power supply	V <sub>DD</sub> to V <sub>SS</sub>	4.75	5.0	5.25	\/	
Input voltage	VI	0	-	$V_{DD}$	] v	

#### Note

•  $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$ 

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
		CONDITION	MIN.	TYP.	MAX.	UNII	
Input voltage	$V_{DD}$	$V_{DD} = +5 \text{ V} \pm 1 \text{ V}$	4.5	5.0	5.5	V	
Supply current	I <sub>DD</sub>	V <sub>DD</sub> = +5 V	-	1.0	1.4	mA	
	V <sub>DD</sub> to V <sub>0</sub>	-20 °C	4.7	4.9	5.1		
Recommended LC driving voltage for normal temperature version module		0 °C	4.5	4.7	4.9	V	
		25 °C	4.3	4.5	4.7		
		50 °C	4.2	4.3	4.5		
		70 °C	4.0	4.1	4.3		
LED forward voltage	V <sub>F</sub>	25 °C	1.7	2.1	2.5	V	
LED forward current	I <sub>F</sub>	25 °C	-	100	200	mA	
EL power supply current	I <sub>EL</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 400 Hz	-	-	5.0	mA	

OPTIONS	3								
	PROCESS COLOR					BACKLIGHT			
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
-	Х	Х	-	-	-	Х	Х	-	-

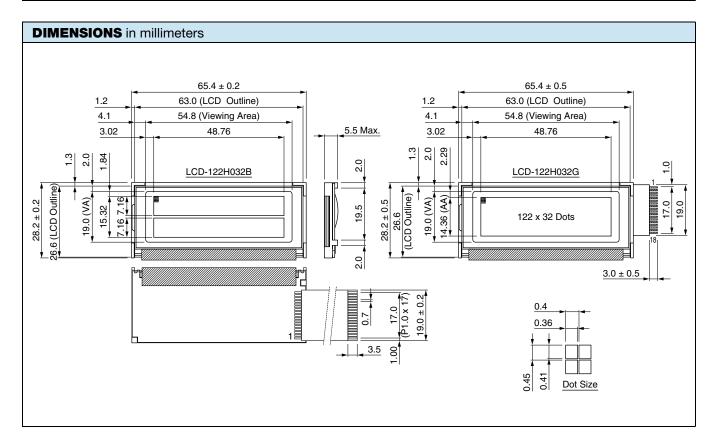
For detailed information, please see the "Product Numbering System" document.



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INTERFACE PIN	INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION			
1	$V_{DD}$	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	E1	Enable chip 1			
6	E2	Enable chip 2			
7	R/W	H: read data / L: write data			
8	A <sub>0</sub>	H: D0 to D7 are display data / L: D0 to D7 are display control data			
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)			





## **Legal Disclaimer Notice**

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