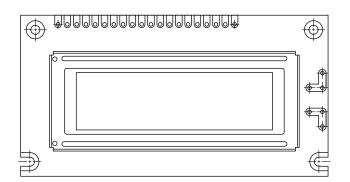


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122 x 32 Graphic LCD



FEATURES

• Type: graphic

• Display format: 122 x 32 dots

• Built-in controller: SBN1661G

• Duty cycle: 1/32

 Available for internal (A type), external (C type), oscillation 2 kHz

• N.V. optional for +3 V power supply

• Chinese version: LCD-122H032L

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	84.0 x 44.0				
Viewing area	60.0 x 18.0				
Dot size	0.40 x 0.45	mm			
Dot pitch	0.44 x 0.49	mm			
Mounting hole	79.0 x 36.0				
Character size	n/a				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	LINUT			
IIEW	STWIDOL	MIN.	TYP.	MAX.	UNIT	
Power supply	V _{DD} to V _{SS}	4.75	5.0	5.25	V	
Input voltage	VI	0	-	V_{DD}	V	

Note

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

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	ST	LINUT			
		CONDITION	MIN.	TYP.	MAX.	UNIT	
Input voltage	V_{DD}	$V_{DD} = +5 \text{ V}$	4.5	5.0	5.5	V	
Supply current	I _{DD}	$V_{DD} = +5 \text{ V}$	-	0.6	0.8	mA	
	V _{DD} to V ₀	-20 °C	5.3	5.4	5.5		
Recommended LC driving voltage for normal temperature version module		0 °C	4.7	4.8	4.9		
		25 °C	4.6	4.7	4.8	V	
		50 °C	4.3	4.4	4.6		
		70 °C	4.1	4.2	4.4		
LED forward voltage	V _F	25 °C	-	4.2	4.6	V	
LED forward current	I _F	25 °C	-	120	240	mA	
EL power supply current	I _{EL}	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
-	Х	Х	Х	х	-	Х	Х	Х	-

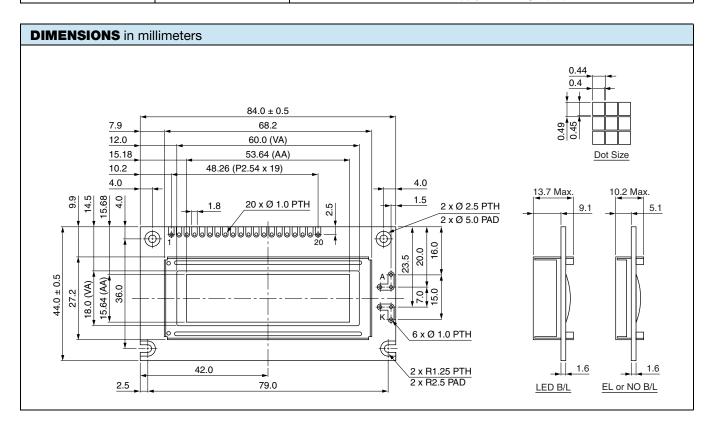
For detailed information, please see the "Product Numbering System" document.



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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V_{DD}	+5 V			
3	V ₀	Contrast adjustment			
4	A ₀	H: data / L: instruction			
5	CS1	H: chip 1 enable			
6	CS2	H: chip 2 enable			
7	NC/CL	No connection (A type), external clock 2 kHz (C type)			
8	NC/E	No connection (A type), enable signal (C type)			
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}	$H \rightarrow L$ reset the LCM			
19	A/V _{EE}	+ 4.2 V for LED / negative voltage output			
20	К	Power supply for backlight (0 V)			





Legal Disclaimer Notice

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