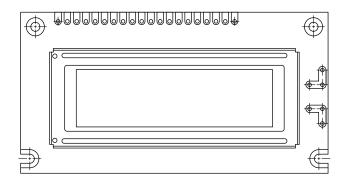
LCD-122H032A, LCD-122H032C



Vishay

122 x 32 Graphic LCD



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			
Dot pitch	0.44 x 0.49	mm		
Mounting hole	79.0 x 36.0			
Character size	n/a			

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

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN				
	STINDUL	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

• $V_{SS} = 0 V, V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE			
	STIVIDOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Input voltage	V _{DD}	$V_{DD} = +5 V$	4.5	5.0	5.5	V	
Supply current	I _{DD}	$V_{DD} = +5 V$	-	0.6	0.8	mA	
	V_{DD} to V_0	-20 °C	5.3	5.4	5.5		
Recommended LC		0° 0	4.7	4.8	4.9	V	
driving voltage for normal temperature version module		25 °C	4.6	4.7	4.8		
		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	l _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.

Revision: 23-Jun-17

1 For technical questions, contact: <u>displays@vishay.com</u>

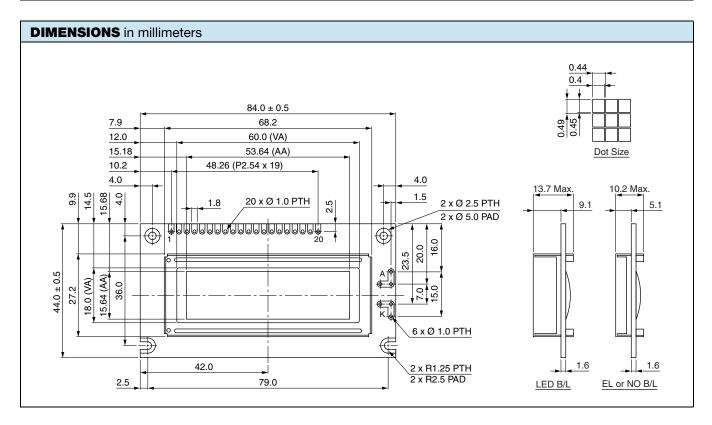




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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V _{DD}	+5 V			
3	V ₀	Contrast adjustment			
4	A ₀	H: data / L: instruction			
5	CS1	H: chip 1 enable			
6	CS2	H: chip 2 enable			
7	NC/CL	No connection (A type), external 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)			



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