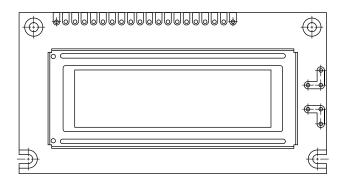


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## 122 x 32 Graphic LCD



#### **FEATURES**

• Type: Graphic

• Display format: 122 x 32 dots

Built-in controller: Epson SED1520 (or equivalent)
RoHS
COMPLIANT

• 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

• Compliant to RoHS directive 2002/95/EC

MECHANICAL DATA				
ITEM STANDARD VALUE U				
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	LIMIT			
ITEM	STWIDOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	$V_{DD}$ to $V_{SS}$	4.75	5.0	5.25	V	
Input Voltage	$V_{I}$	0	-	$V_{DD}$	]	

#### Note

• V<sub>SS</sub> = 0 V, V<sub>DD</sub> = 5.0 V

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			LINUT	
		CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	$V_{DD}$	V <sub>DD</sub> = + 5 V	4.5	5.0	5.5	V	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> = + 5 V	-	0.6	0.8	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module	$V_{DD}$ to $V_0$	- 20 °C	5.3	5.4	5.5		
		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 <sub>F</sub>	25 °C	-	4.2	4.6	V	
LED Forward Current	I <sub>F</sub>	25 °C	-	120	240	mA	
EL Power Supply Current	I <sub>EL</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 400 Hz	-	-	5.0	mA	

OPTION	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.

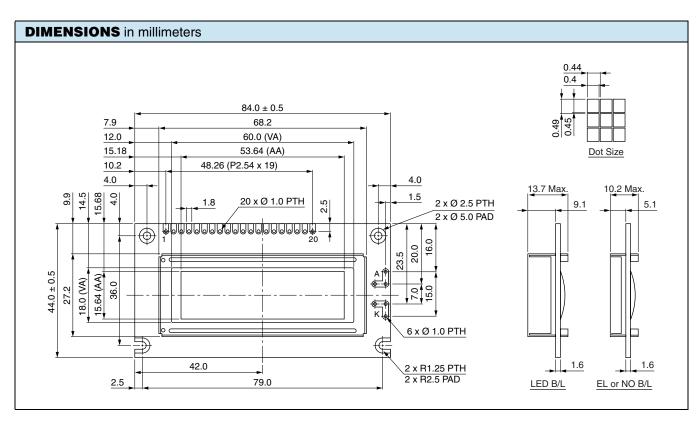
# LCD-122H032A, LCD-122H032C

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## 122 x 32 Graphic LCD



INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	V <sub>SS</sub>	Ground				
2	V <sub>DD</sub>	+ 5 V				
3	V <sub>0</sub>	Contrast adjustment				
4	A <sub>0</sub>	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 <sub>ES</sub>	$H \rightarrow L$ reset the LCM				
19	A/V <sub>EE</sub>	+ 4.2 V for LED/negative voltage output				
20	К	Power supply for B/L (0 V)				





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Revision: 18-Jul-08

Document Number: 91000 www.vishay.com