LCD-122H032E, LCD-122H032J



Vishay

122 x 32 Graphic LCD

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- Type: graphic
- Display format: 122 x 32 dots
- Built-in controller: SBN1661G
- Duty cycle: 1/32
- Available for external (E type), internal (J type), oscillation 2 kHz
- N.V. optional for +3 V power supply
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module dimension	80.0 x 36.0			
Viewing area	60.0 x 18.0			
Dot size	0.40 x 0.45			
Dot pitch	0.44 x 0.49	mm		
Mounting hole	75.0 x 28.0]		
Character size	n/a			

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN				
	SYMBOL	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	
Nete						

Note

• $V_{SS} = 0 V, V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
	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}	$V_{DD} = +5 V$	-	1.0	1.4	mA	
	V_{DD} to V_0	-20 °C	4.9	5.0	5.1		
Recommended LC driving voltage for normal temperature version module		0 °C	4.7	4.8	4.9	V	
		25 °C	4.6	4.7	4.8		
		50 °C	4.3	4.4	4.7		
		70 °C	4.1	4.2	4.5		
LED forward voltage	V _F	25 °C	-	4.2	4.6	V	
LED forward current	١ _F	25 °C	-	120	240	mA	
EL power supply current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

OPTIONS	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

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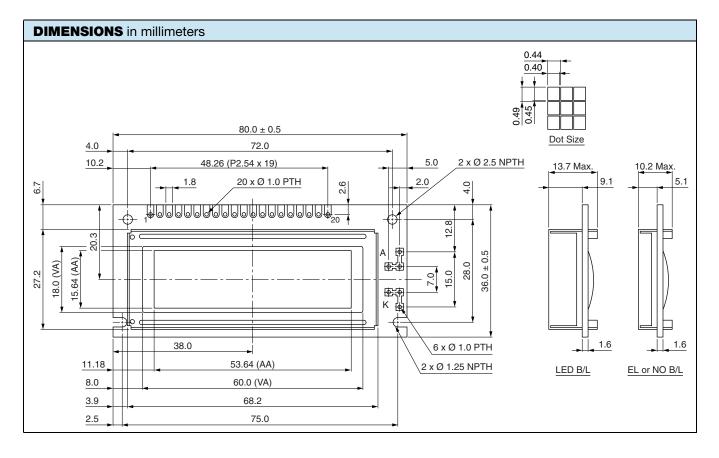
ROHS COMPLIANT



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



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Document Number: 37322



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