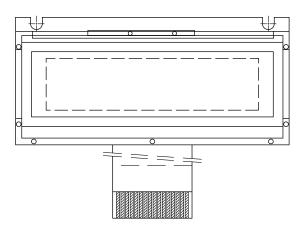
LCD-122H032I



122 x 32 Graphic LCD



FEATURES

- Type: graphic
- Display format: 122 x 32 dots
- Built-in controller: SBN1661G
- Duty cycle: 1/32
- FFC
- Same size with LCD-122H032D
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module dimension	59.0 x 29.3 x 5.55			
Viewing area	52.0 x 15.0			
Dot size	0.345 x 0.345	mm		
Dot pitch	0.375 x 0.375	mm		
Mounting hole	50.0 x 1.5			
Character size	n/a			

ABSOLUTE MAXIMUM RATINGS					
CVMDOL	STAN				
STIVIDUL	MIN.	TYP.	MAX.	UNIT	
V_{DD} to V_{SS}	2.75	5.0	5.25	V	
VI	0	-	V _{DD}	1 1	
	SYMBOL	SYMBOL STAN	SYMBOL STANDARD VA	SYMBOL STANDARD VALUE MIN. TYP. MAX. V_DD to V_SS 2.75 5.0 5.25	

Note

• $V_{SS} = 0 V$, $V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE			
			MIN.	TYP.	MAX.	UNIT	
Input voltage	V _{DD}	-	-	5.0	-	V	
Supply current	I _{DD}	$V_{DD} = +5 V$	-	1.0	-	mA	
Recommended LC driving voltage for normal temperature version module		-20 °C	-	-	-	v	
	V_{DD} to V_0	25 °C	-	4.85	-		
		70 °C	-	-	-		
CCFL starting voltage	V _{FLS}	25 °C	-	-	-	V _{RMS}	
CCFL drivingvoltage	V _{FLD}	25 °C	-	-	-	V _{RMS}	
CCFL driving current	I _{FLD}	V _{FQ} = 450 V _{RMS} , 300 kHz	-	-	-	mA _{RMS}	
LED forward voltage	V _F	25 °C	-	4.2	-	V	
LED forward current	I _F	25 °C - 40.0		40.0	-	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	-

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

Revision: 23-Jun-17

1

Document Number: 37323



Vishay

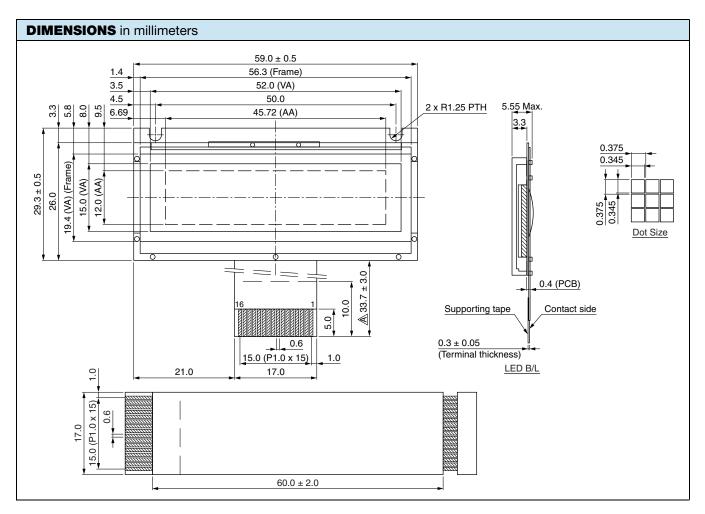
RoHS COMPLIANT



LCD-122H032I

Vishay

INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION		
1	\overline{V}_{LED}	Backlight selected		
2	V _{SS}	Ground		
3	V _{DD}	Supply voltage for logic		
4	V ₀	Operating voltage for LCD		
5	A ₀	H: data / L: instruction		
6	E1	Enable chip 1		
7	E2	Enable chip 2		
8	DB0	Data bus line		
9	DB1	Data bus line		
10	DB2	Data bus line		
11	DB3	Data bus line		
12	DB4	Data bus line		
13	DB5	Data bus line		
14	DB6	Data bus line		
15	DB7	Data bus line		
16	R / W	H: read data / L: write data		



2

Document Number: 37323

For technical questions, contact: <u>displays@vishay.com</u> THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT <u>www.vishay.com/doc?91000</u>



Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

© 2025 VISHAY INTERTECHNOLOGY, INC. ALL RIGHTS RESERVED

Revision: 01-Jan-2025

1