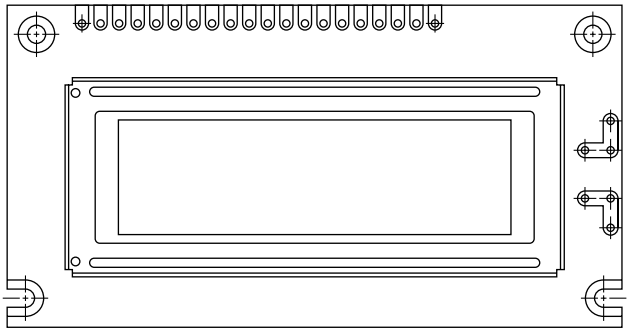
122 x 32 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 122 x 32 dots
- Built-in controller: Epson SED1520 (or equivalent)
- 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

Pb-free RoHS COMPLIANT

MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	84.0 x 44.0	mm
Viewing Area	60.0 x 18.0	
Dot Size	0.40 x 0.45	
Dot Pitch	0.44 x 0.49	
Mounting Hole	79.0 x 36.0	
Character Size	N/a	

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V
Input Voltage	V_I	0	-	V_{DD}	

Note

- V_{SS} = 0 V, V_{DD} = 5.0 V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
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
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	5.3	5.4	5.5	V
		0 °C	4.7	4.8	4.9	
		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	I_F	25 °C	-	120	240	mA
EL Power Supply Current	I_{EL}	V_{EL} = 110 V_{AC}, 400 Hz	-	-	5.0	mA

OPTIONS

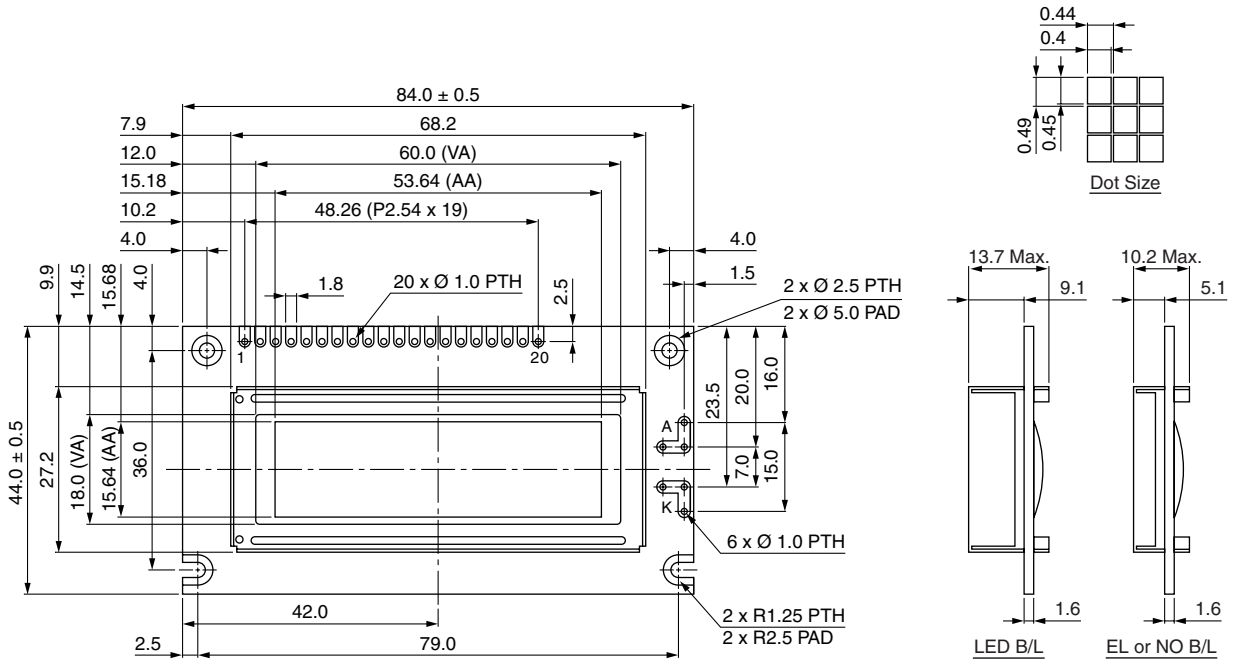
PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	x	x	x	x		x	x	x	

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

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/$\overline{W}$	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 → L reset the LCM
19	A/V_{EE}	+ 4.2 V for LED/negative voltage output
20	K	Power supply for B/L (0 V)

DIMENSIONS in millimeters



Disclaimer

All product specifications and data are subject to change without notice.

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 herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay’s terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

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.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.