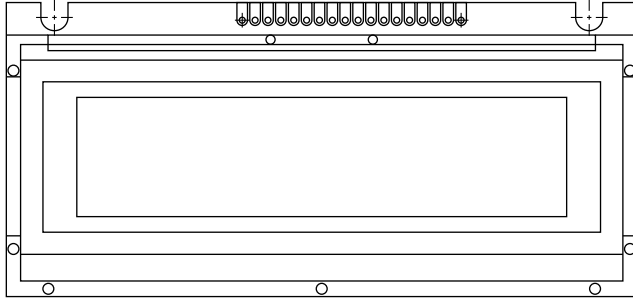


122 x 32 Graphic LCD



FEATURES

- Type: graphic
- Display format: 122 x 32 dots
- Built-in controller: SBN1661G
- Duty cycle: 1/32
- Chinese version: LCD-122H032N
- Pin pitch 2.0 mm version: LCD-122H032D1
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


**RoHS
COMPLIANT**

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

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power supply	V_{DD} to V_{SS}	2.75	5.0	5.25	V
Input voltage	V_I	0	-	V_{DD}	

Note

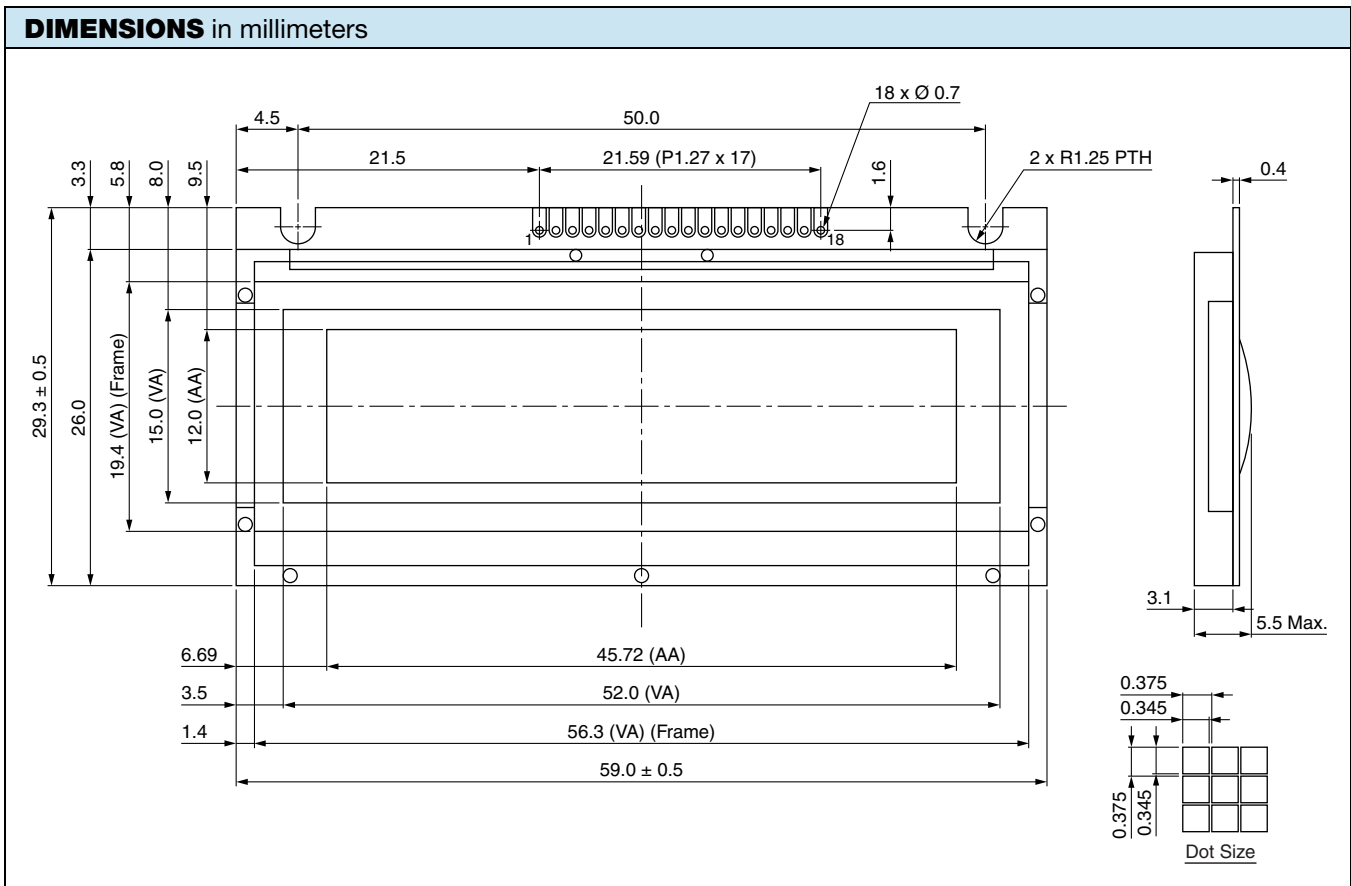
- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

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	-	1.0	1.4	mA
Recommended LC driving voltage for normal temperature version module	V_{DD} to V_0	-20 °C	5.3	5.5	5.7	V
		0 °C	5.1	5.3	5.5	
		25 °C	4.7	4.9	5.1	
		50 °C	4.3	4.6	4.9	
		70 °C	4.1	4.4	4.7	
LED forward voltage	V_F	25 °C	-	4.2	4.6	V
LED forward current	I_F	25 °C	-	40	-	mA
EL power supply current	I_{EL}	$V_{EL} = 110$ V _{AC} , 400 Hz	-	-	-	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	-

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

INTERFACE PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION
1	\bar{V}_{LED}	Power supply for LED backlight “-”
2	V_{SS}	Ground
3	V_{DD}	+5 V
4	V_0	Contrast adjustment
5	A_0	H: data / L: instruction
6	E1	Chip enable for U1 (segment 1 to 61)
7	E2	Chip enable for U1 (segment 62 to 122)
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 / L read / write data
17	V_{EE}	Negative voltage output
18	NC	No connection





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