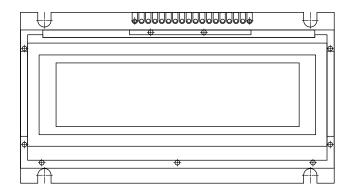




122 x 32 Graphic LCD



FEATURES

• Type: graphic

Display format: 122 x 32 dotsBuilt-in controller: SBN1661G



• Duty cycle: 1/32

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	59.0 x 32.1				
Viewing area	52.0 x 15.0				
Dot size	0.345 x 0.345	mm			
Dot pitch	0.375 x 0.375	'''''			
Mounting hole	50.0 x 29.12				
Character size	n/a				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
IIEWI	STWIDOL	MIN.	TYP.	MAX.	CINIT	
Power supply	V _{DD} to V _{SS}	2.75	5.0	5.25	V	
Input voltage	VI	0	-	V_{DD}	7 °	

Note

• $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$

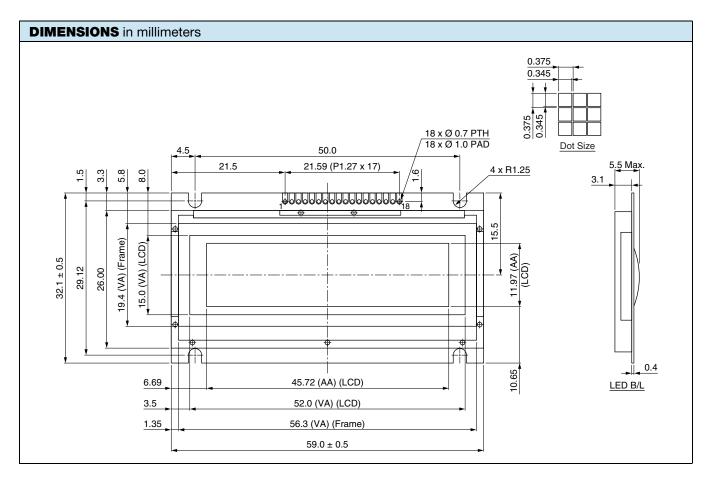
ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			LINUT	
			MIN.	TYP.	MAX.	UNIT	
Input voltage	V_{DD}	V _{DD} = +5 V	4.5	5.0	5.5	V	
Supply current	I _{DD}	V _{DD} = +5 V	-	1.0	1.4	mA	
Recommended LC driving voltage for normal temperature version module	V _{DD} to V ₀	-20 °C	5.3	5.5	5.7		
		0 °C	5.1	5.3	5.5	V	
		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						BACK	LIGHT	
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.



INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	К	Power supply for backlight				
2	V _{SS}	Ground				
3	V_{DD}	Supply voltage for logic				
4	V ₀	Operating voltage for LCD				
5	A ₀	H: date / 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: D0 to D7 are display date / L: D0 to D7 are display control date				
17	V _{EE}	Negative voltage output (built-in)				
18	A	Power supply for backlight				





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Vishay

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