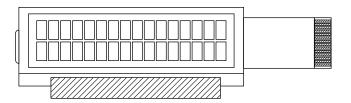
Vishay

16 x 2 Character LCD



FEATURES

• Type: character

• Display format: 16 x 2 characters

• Built-in controller: ST7066 (or equivalent)

Duty cycle: 1/16

• 5 x 8 dots includes cursor

• +5 V power supply

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



MECHANICAL DATA							
ITEM	STANDARD VALUE	UNIT					
Module dimension	66.7 x 23.3						
Viewing area	61.0 x 15.9						
Dot size	0.55 x 0.55	mm					
Dot pitch	0.60 x 0.70] '''''					
Mounting hole	n/a						
Character size	2.95 x 5.55						

ABSOLUTE MAXIMUM RATINGS									
ITEM	SYMBOL	STAN	UNIT						
I I EIVI	STIVIBUL	MIN.	TYP.	MAX.	ONII				
Power supply	V_{DD} to V_{SS}	-0.3	-	7.0	V				
Input voltage	VI	-0.3	ı	V_{DD}	V				

Note

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

ELECTRICAL CHARACTERISTICS								
	SYMBOL	CONDITION	ST	STANDARD VALUE				
ITEM	STINIBUL	CONDITION	CONDITION MIN.		TYP. MAX.			
Input voltage	V_{DD}	-	4.7	5.0	5.3	V		
Supply current	I _{DD}	$V_{DD} = +5 \text{ V}$	-	1.0	1.2	mA		
		-20 °C	5.0	5.1	5.7			
Recommended LCdriving voltage for normal temperature version module	V _{DD} to V ₀	0 °C	4.6	4.8	5.2]		
		25 °C	4.1	4.5	4.7	V		
		50 °C	3.9	4.2	4.5]		
		70 °C	3.7	3.9	4.3]		
LED forward voltage	V _F	25 °C	-	-	-	V		
LED forward current	I _F	25 °C	-	-	-	mA		
EL power supply current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	-	mA		

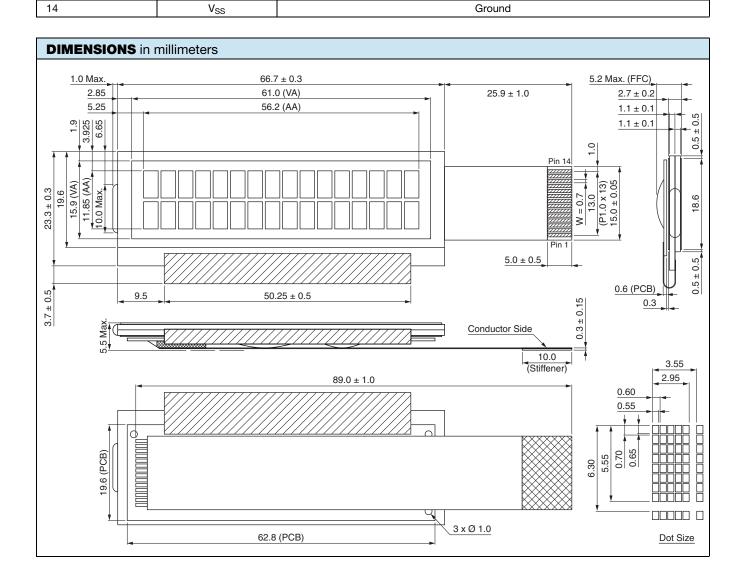
OPTION	S								
		PROCES	S COLOR				BACK	LIGHT	
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
х	х	х	х	х	-	х	х	-	-

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

DISPLAY CHARACTER ADDRESS CODE																
Display position																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
DD RAM address	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F



INTERFACE PIN FUNCTION							
PIN NO.	SYMBOL	FUNCTION					
1	V _{DD}	Supply voltage for logic					
2	V ₀	Contrast adjustment					
3	RS	H: data / L: instruction					
4	R/W	H: read data / L: write data					
5	E	Enable signal					
6	DB0	Data bus line					
7	DB1	Data bus line					
8	DB2	Data bus line					
9	DB3	Data bus line					
10	DB4	Data bus line					
11	DB5	Data bus line					
12	DB6	Data bus line					
13	DB7	Data bus line					





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Vishay

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