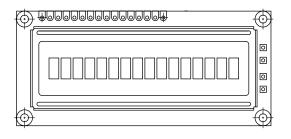


# LCD-016N001A

Vishay

### 16 x 1 Character LCD



#### FEATURES

- Type: Character
- Display format: 16 x 1 characters
- Built-in controller: KS 0066 (or equivalent)
- Duty cycle: 1/16
- 5 x 8 dots includes cursor
- + 5 V power supply (also available for + 3 V)
- LED can be driven by pin 1, pin 2, pin 15, pin 16, or A and K
- N.V. optional for + 3 V power supply
- Compliant to RoHS directive 2002/95/EC

MECHANICAL DATA							
ITEM	STANDARD VALUE	UNIT					
Module Dimension	80.0 x 36.0						
Viewing Area	66.0 x 16.0						
Dot Size	0.55 x 0.75						
Dot Pitch	0.63 x 0.83	mm					
Mounting Hole	75.0 x 31.0	7					
Character Size	3.07 x 6.56	7					

ABSOLUTE MAXIMUM RATING									
ITEM	SYMBOL	STAN	UNIT						
	STMDOL	MIN.	TYP.	MAX.					
Power Supply	$V_{\text{DD}}$ to $V_{\text{SS}}$	- 0.3	-	7.0	V				
Input Voltage	VI	- 0.3	-	$V_{DD}$	v				

Note

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

ELECTRICAL CHARACTERISTICS									
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE					
	STMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT			
Input Voltage	V <sub>DD</sub>	$V_{DD} = +5 V$	4.7	5.0	5.3	V			
Supply Current	I <sub>DD</sub>	$V_{DD} = +5 V$	-	1.2	1.4	mA			
		- 20 °C	4.9	5.1	5.5				
Recommended LC Driving	$V_{DD}$ to $V_0$	0 °C	4.5	4.8	5.1				
Voltage for Normal Temperature		25 °C	4.1	4.5	4.7	V			
Version Module		50 °C	3.8	4.2	4.4	1			
		70 °C	3.5	3.9	3.9 4.1				
LED Forward Voltage	V <sub>F</sub>	25 °C	-	4.2	4.6	V			
LED Forward Current	I <sub>F</sub>	25 °C	-	130	260	mA			
EL Power Supply Current	I <sub>EL</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 400 Hz	-	-	5.0	mA			

OPTIONS										
PROCESS COLOR BACKI								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.



COMPLIANT

# LCD-016N001A

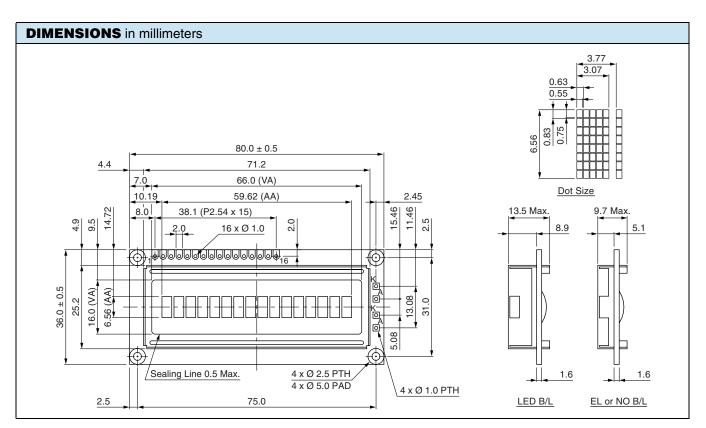
#### Vishay

16 x 1 Character LCD



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	40	41	42	43	44	45	46	47

INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	V <sub>SS</sub>	Ground				
2	V <sub>DD</sub>	+ 5 V				
3	Vo	Contrast adjustment				
4	RS	H/L register select signal				
5	R/W	H/L read/write signal				
6	E	$H \rightarrow L$ enable signal				
7	DB0	H/L data bus line				
8	DB1	H/L data bus line				
9	DB2	H/L data bus line				
10	DB3	H/L data bus line				
11	DB4	H/L data bus line				
12	DB5	H/L data bus line				
13	DB6	H/L data bus line				
14	DB7	H/L data bus line				
15	A	+ 4.2 V for LED ( $R_A = 0 \Omega$ )				
15	К	Power supply for B/L (0 V)				





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