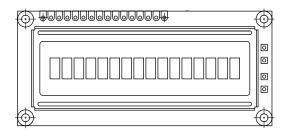


LCD-016N001A

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						
Character Size	3.07 x 6.56						

ABSOLUTE MAXIMUM RATING									
ІТЕМ	SYMBOL	STAN							
	STMDOL	MIN.	TYP.	MAX.	UNIT				
Power Supply	V_{DD} to V_{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						
	STMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT			
Input Voltage	V _{DD}	V _{DD} = + 5 V	4.7	5.0	5.3	V			
Supply Current	I _{DD}	$V_{DD} = +5 V$	-	1.2	1.4	mA			
		- 20 °C	4.9	5.1	5.5				
Recommended LC Driving	V_{DD} to V_0	0 °C	0 °C 4.5 4.8	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	4.1				
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V			
LED Forward Current	IF	25 °C	-	130	260	mA			
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA			

OPTIONS										
		PROCES	BACKLIGHT							
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL	
x	х	х	х			х	х	х		

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

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RoHS

COMPLIANT

LCD-016N001A

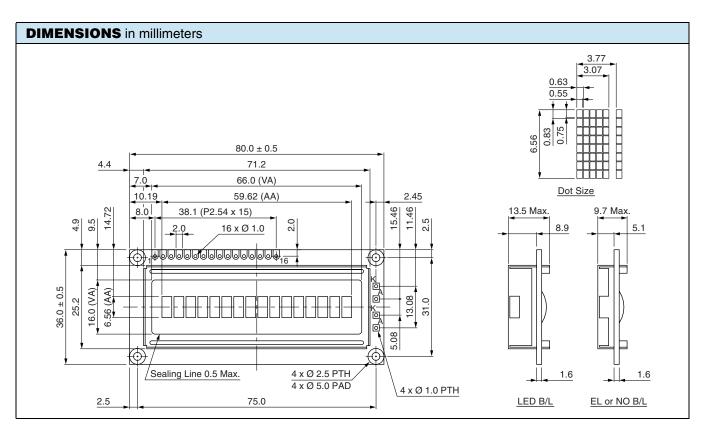
Vishay

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 _{SS}	Ground					
2	V _{DD}	+ 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)					



www.vishay.com 2 For technical questions, contact: displays@vishay.com

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