LCD-016N002J



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Vishay

16 x 2 Character LCD

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FEATURES

- Type: character
- Display format: 16 x 2 characters
- Built-in controller: ST7066
- Duty cycle: 1/16
- 5 x 8 dots includes cursor
- +5 V power supply (also available for +3 V)
- \bullet 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
- Optional: smaller character size (2.95 mm x 4.35 mm)
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

MECHANICAL DATA						
ITEM	STANDARD VALUE	UNIT				
Module dimension	85.0 x 36.0					
Viewing area	66.0 x 16.0					
Dot size	0.55 x 0.65					
Dot pitch	0.60 x 0.70	mm				
Mounting hole	75.0 x 31.0					
Character size	2.95 x 5.55]				

ABSOLUTE MAXIMUM RATINGS								
SYMPOL	STAN	IDARD V	ALUE	UNIT				
STIVIDUL			MAX.					
V_{DD} to V_{SS}	-0.3	-	7.0	V				
ige V _I -0.3 -								
	SYMBOL	SYMBOL STAN MIN. VDD to VSS -0.3	SYMBOL STANDARD V. MIN. TYP. V _{DD} to V _{SS} -0.3 -	STANDARD VALUE MIN. TYP. MAX. V _{DD} to V _{SS} -0.3 - 7.0				

Note

[•] V_{SS} = 0 V, V_{DD} = 5.0 V

ELECTRICAL CHARACTERISTICS									
17534			ST						
ITEM	SYMBOL	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	1.5	mA			
Recommended LC driving voltage for normal temperature version module		-20 °C	-	-	5.2				
		0 °C	-	-	4.2				
	V_{DD} to V_0	25 °C	-	3.8	-	V			
		50 °C	3.5	-	-				
		70 °C	3.2	-	-	1			
LED forward voltage	V _F	25 °C	-	4.2	4.6	V			
LED forward current - array			-	100	-				
LED forward current - edge	I _F	25 °C	-	20	40	mA			
EL power supply current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA			

OPTION	S								
		PROCES		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.

Revision: 22-Jun-17



RoHS COMPLIANT

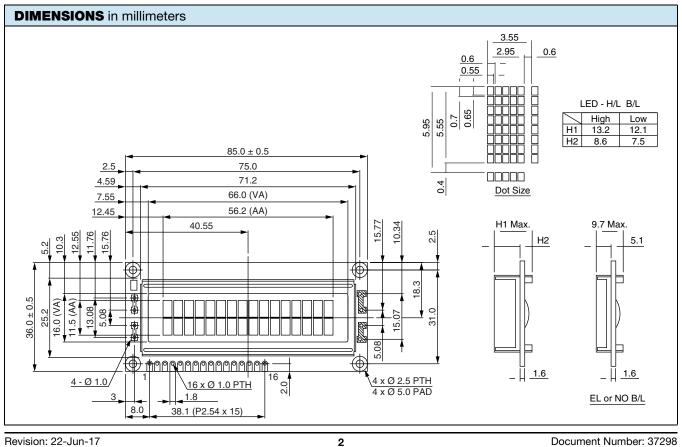
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DISPLAY CHARACTER ADDRESS CODE

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 _{SS}	Ground					
2	V _{DD}	+3 V or +5 V					
3	V ₀	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 / V _{EE}	+4.2 V for LED ($R_A = 0 \Omega$) / negative voltage output					
16	К	Power supply for backlight (0 V)					



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For technical questions, contact: displays@vishay.com

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