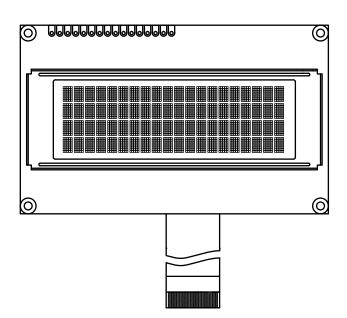


## 20 x 4 Character OLED



#### **FEATURES**

• Type: Character

• Display format: 20 x 4 characters

• Built-in controller: OLED-0010

• Duty cycle: 1/16

• +5 V power supply, +3 V optional

• Interface: 6800, option 8080 and SPI

• Sunlight readable and polarizer optional

 Material categorization: For definitions of compliance please see <a href="https://www.vishav.com/doc?99912">www.vishav.com/doc?99912</a>



RoHS

MECHANICAL DATA					
ITEM	STANDARD VALUE				
Module dimension	98.0 x 60.0 x 10.0 (max.)				
Viewing area	70.0 x 25.2				
Active area	70.16 x 20.95				
Dot size	0.54 x 0.55	mm			
Dot pitch	0.59 x 0.60	111111			
Mounting hole	93.0 x 55.0				
Character size	2.9 x 4.75				
Character pitch	3.54 x 5.4				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STANDAF	UNIT			
I I E IVI	STIVIBUL	MIN.	MAX.	UNII		
Supply voltage for logic	V <sub>DD</sub> to V <sub>SS</sub>	-0.3	5.3	V		
Input voltage	V <sub>I</sub>	-0.3	$V_{DD}$			

### Note

•  $V_{SS} = 0 \text{ V}, V_{DD} = 3.0 \text{ V}/5.0 \text{ V}$ 

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
		CONDITION	MIN.	TYP.	MAX.	UNII
Supply voltage for logic	V <sub>DD</sub> to V <sub>SS</sub>	-	3.0	5.0	5.3	V
Input high voltage	V <sub>IH</sub>	-	0.9 V <sub>DD</sub>	-	$V_{DD}$	V
Input low voltage	V <sub>IL</sub>	-	GND	-	0.1 V <sub>DD</sub>	V
Output high voltage	V <sub>OH</sub>	I <sub>OH</sub> = 0.5 mA	0.8 V <sub>DD</sub>	-	$V_{DD}$	V
Output low voltage	V <sub>OL</sub>	I <sub>OL</sub> = 0.5 mA	GND	-	0.2 V <sub>DD</sub>	V
Supply current	I <sub>DD</sub>	V <sub>DD</sub> = 5 V	-	43	-	mA

OPTIONS									
	EMITTING COLOR			MOQ					
YELLOW	GREEN	RED	BLUE	WHITE	YELLOW	GREEN	RED	BLUE	WHITE
Y	Υ	Υ	=	-	N	Υ	Υ	-	=

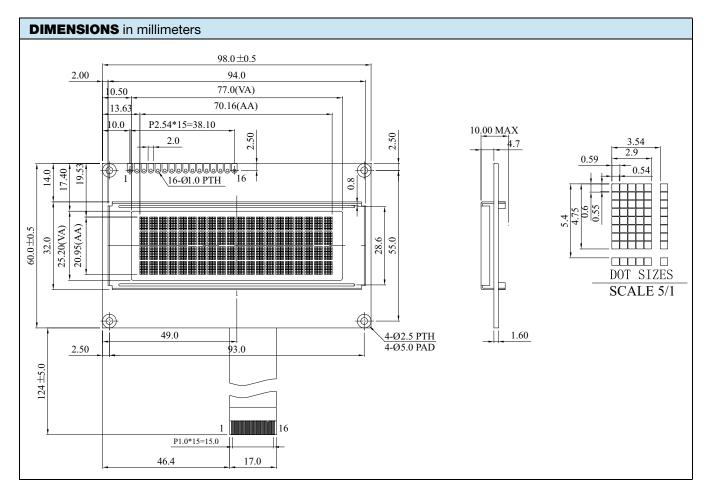
Revision: 13-Feb-14 **1** Document Number: 37706

For technical questions, contact: displays@vishay.com



www.vishay.com

INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V <sub>SS</sub>	Ground			
2	$V_{DD}$	Supply voltage for logic			
3	NC	No connection			
4	RS	H: Data; L: Instruction code			
5	R/W	H: Read (MPU $\leftarrow$ Module); L: Write (MPU $\rightarrow$ Module)			
6	E	$H \rightarrow L$ enable signal			
7	DB0	Data bit 0			
8	DB1	Data bit 1			
9	DB2	Data bit 2			
10	DB3	Data bit 3			
11	DB4	Data bit 4			
12	DB5	Data bit 5			
13	DB6	Data bit 6			
14	DB7	Data bit 7			
15	NC	No connection			
16	NC	No connection			





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