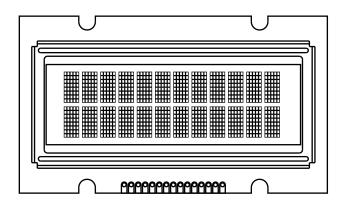


**RoHS** 

COMPLIANT



## 12 x 2 Character OLED



#### **FEATURES**

• Type: Character

• Display format: 12 x 2 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 www.vishav.com/doc?99912

MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module dimension	55.7 x 32.0 x 11.0 (max.)			
Viewing area	46.0 x 14.5			
Active area	38.95 x 11.80			
Dot size	0.45 x 0.60	mm		
Dot pitch	0.55 x 0.70	mm		
Mounting hole	31.2 x 30.0			
Character size	2.65 x 5.5			
Character pitch	3.6 x 6.3			

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	STANDAF	TUALL		
IIEWI	STINIBUL	MIN.	MAX.	UNIT	
Supply voltage for logic	V <sub>DD</sub> to V <sub>SS</sub>	-0.3	5.3	٧	
Input voltage	VI	-0.3	$V_{DD}$		

### Note

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

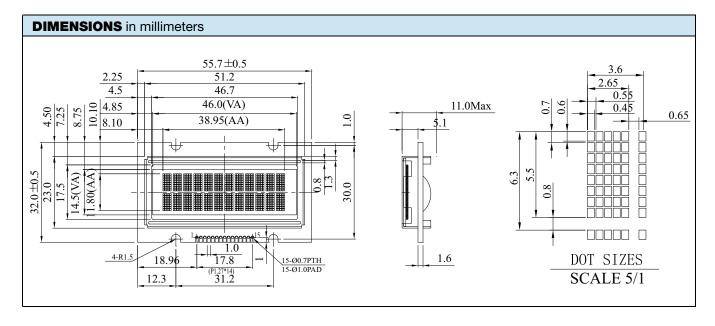
ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE				
HEM	STWIBUL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply voltage for logic	V <sub>DD</sub> to V <sub>SS</sub>	-	3.0	5.0	5.3	V	
Input high voltage	V <sub>IH</sub>	-	0.9 V <sub>DD</sub>	-	$V_{DD}$	V	
Input low voltage	V <sub>IL</sub>	-	GND	-	0.1 V <sub>DD</sub>	V	
Output high voltage	V <sub>OH</sub>	$I_{OH} = 0.5 \text{ mA}$	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>	$V_{DD} = 5 V$	-	32	-	mA	

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



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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		





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