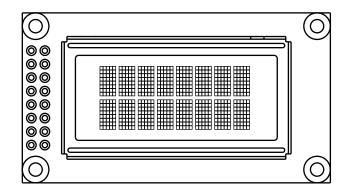




8 x 2 Character OLED



FEATURES

• Type: Character

• Display format: 8 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 <u>www.vishay.com/doc?99912</u>

Pb-free
RoHS

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	58.0 x 32.0 x 10.0 (max.)				
Viewing area	38.0 x 16.0				
Active area	28.16 x 11.86				
Dot size	0.56 x 0.66	mm			
Dot pitch	0.60 x 0.70	mm			
Mounting hole	53.0 x 27.0				
Character size	2.96 x 5.56				
Character pitch	3.6 x 6.3				

ABSOLUTE MAXIMUM RATINGS					
ITEM	CVMDOL	STANDAF	TUALL		
ITEM	SYMBOL	MIN.	MAX.	UNIT	
Supply voltage for logic	V _{DD} to V _{SS}	-0.3	5.3	V	
Input voltage	VI	-0.3	V_{DD}		

Note

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

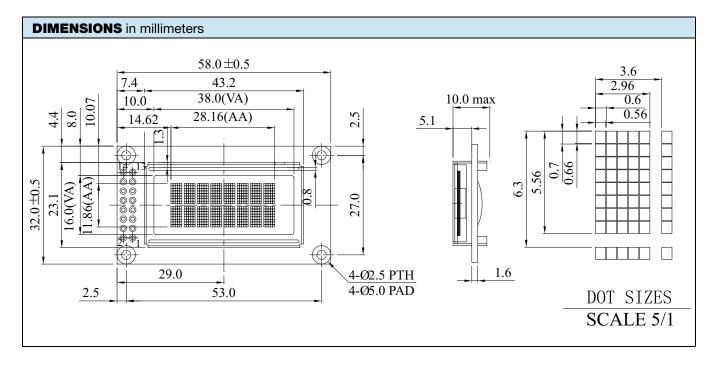
ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE			
ITEM	SYMBOL CONDITION	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply voltage for logic	V _{DD} to V _{SS}	-	3.0	5.0	5.3	V	
Input high voltage	V _{IH}	-	0.9 V _{DD}	-	V_{DD}	V	
Input low voltage	V _{IL}	-	GND	-	0.1 V _{DD}	V	
Output high voltage	V _{OH}	I _{OH} = 0.5 mA	0.8 V _{DD}	-	V_{DD}	V	
Output low voltage	V _{OL}	I _{OL} = 0.5 mA	GND	-	0.2 V _{DD}	V	
Supply current	I _{DD}	$V_{DD} = 5 V$	-	16	-	mA	

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



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INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION		
1	V _{SS}	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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