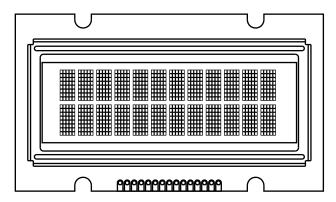
OLED-012N002A



12 x 2 Character OLED



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			

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 <u>www.vishay.com/doc?99912</u>

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	STANDAF	UNIT		
	STIVIDOL	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

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

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
	STMBOL	STMBOE CONDITION		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	VIL	-	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}	$V_{DD} = 5 V$	-	32	-	mA

OPTIONS									
EMITTING COLOR						MOQ			
YELLOW	GREEN	RED	BLUE	WHITE	YELLOW	GREEN	RED	BLUE	WHITE
Y	-	-	-	-	Ν	-	-	-	-



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RoHS COMPLIANT

Revision: 13-Feb-14

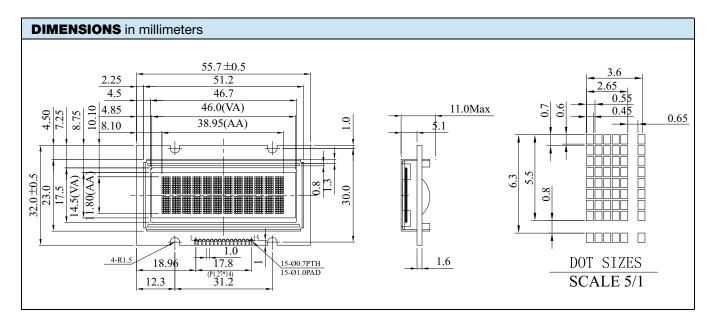


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INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION		
1	V _{SS}	Ground		
2	V _{DD}	Supply voltage for logic		
3	NC	No connection		
4	RS	H: Data; L: Instruction code		
5	R/W	H: Read (MPU \leftarrow Module); L: Write (MPU \rightarrow Module)		
6	E	$H \rightarrow L$ 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		



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