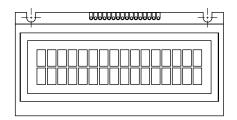


16 x 2 Character LCD



FEATURES

• Type: Character

• Display format: 16 x 2 characters

• Built-in controller: ST 7066 (or equivalent)

RoHS

• Duty cycle: 1/16

• 5 x 8 dots includes cursor

• + 5 V power supply

 Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

MECHANICAL DATA							
ITEM	STANDARD VALUE	UNIT					
Module Dimension	59.0 x 29.3						
Viewing Area	52.0 x 15.0						
Dot Size	0.45 x 0.54	mm					
Dot Pitch	0.50 x 0.59	mm					
Mounting Hole	50.0						
Character Size	2.45 x 4.67						

ABSOLUTE MAXIMUM RATINGS								
ITEM	CVMDOL	STAN	LINIT					
IIEW	SYMBOL	MIN.	TYP.	MAX.	UNIT			
Power Supply	V _{DD} to V _{SS}	- 0.3	-	7.0	V			
Input Voltage	V_{l}	V _{SS}	-	V_{DD}	v			

Note

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

ELECTRICAL CHARACTERISTICS								
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE				
I I EW	STWIBOL	CONDITION	MIN.	TYP.	MAX.	UNIT		
Input Voltage	V _{DD}	V _{DD} = + 5 V	4.5	5.0	5.5	V		
Supply Current	I _{DD}	V _{DD} = + 5 V	-	1.2	1.5	mA		
	V_{DD} to V_{0}	- 20 °C	-	-	-			
Recommended LC Driving		0 °C	-	-	-]		
Voltage for Normal Temperature		25 °C	-	3.8	-	V		
Version Module		50 °C	-	-	-			
		70 °C	-	-	-			
LED Forward Voltage	V _F	25 °C	-	4.2	-	V		
LED Forward Current - Edge	I _F	25 °C	=	40	-	mA		
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA		

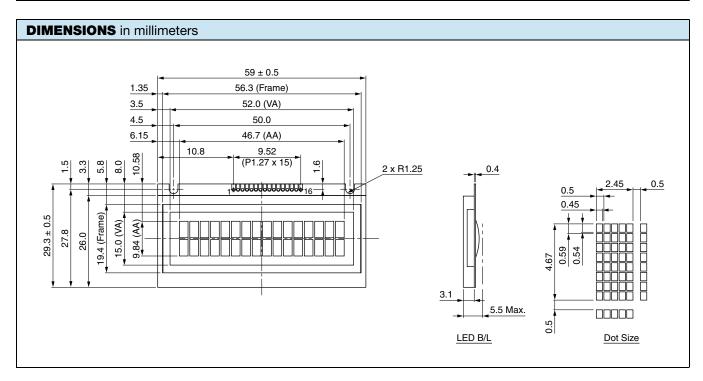
OPTIONS	OPTIONS								
		PROCES	S COLOR	BACKLIGHT					
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
х	х	Х	Х	Х		Х	Х	х	

For detailed information, please see the "Product Numbering System" document.



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	80	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 _{LED}	Power supply for B/L(-)					
2	V _{SS}	Ground					
3	V _{DD}	Supply voltage for logic					
4	V ₀	Operation voltage for LCD					
5	RS	H: Data/L: Instruction					
6	R/W	H/L read/write data					
7	E	Chip enable signal					
8	DB0	Data bit 0					
9	DB1	Data bit 1					
10	DB2	Data bit 2					
11	DB3	Data bit 3					
12	DB4	Data bit 4					
13	DB5	Data bit 5					
14	DB6	Data bit 6					
15	DB7	Data bit 7					
16	N _C /V _{EE}	NC/negative voltage output					





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