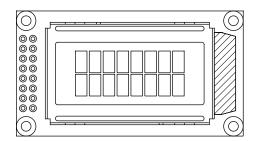
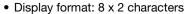
Vishay

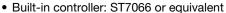
8 x 2 Character LCD

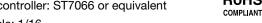


FEATURES

Type: Character







• Duty cycle: 1/16

• 5 x 8 dots includes cursor

• + 5 V power supply

• LED can be driven by pin 1, pin 2, or A and K

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

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module Dimension	58.0 x 32.0				
Viewing Area	38.0 x 16.0				
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				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
IIEW	STIVIDUL	MIN.	TYP.	MAX.	UNII	
Power Supply	V_{DD} to V_{SS}	- 0.3	-	7.0	W	
Input Voltage	VI	- 0.3	-	V_{DD}	\ \	

Note

• V_{SS} = 0 V, V_{DD} = 5.0 V

ELECTRICAL CHARACTERISTICS							
ITCA4	CYMPOL	CONDITION	ST				
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	V_{DD}	V _{DD} = + 5 V	4.7	5.0	5.3	V	
Supply Current	I _{DD}	V _{DD} = + 5 V	-	1.5	1.7	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module		- 20 °C	4.9	5.2	5.5		
	V _{DD} to V ₀	0 °C	4.5	4.8	5.1		
		25 °C	4.1	4.4	4.7	V	
		50 °C	3.8	4.2	4.4		
		70 °C	3.5	4.0	4.1	1	
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V	
LED Forward Current	I _F	25 °C	-	70	140	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

OPTION	OPTIONS								
PROCESS COLOR						BACK	LIGHT		
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.



www.vishay.com

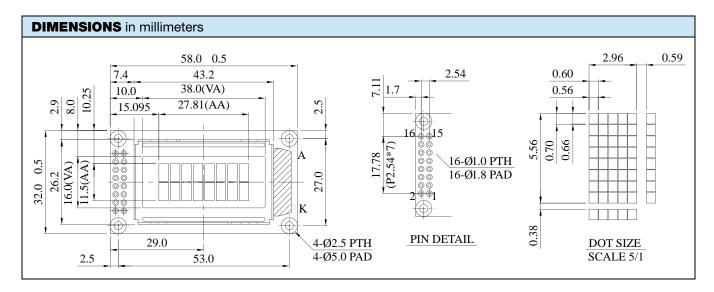
DISPLAY CHARACTER ADDRESS CODE

Display Position

DD RAM Address DD RAM Address

1	2	3	4	5	6	7	8
00	01	02	03	04	05	06	07
40	41	42	43	44	45	46	47

INTERFACE PIN FUNCTIONS					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V _{DD}	Supply voltage for logic + 5 V			
3	V ₀	Operating voltage for LCD			
4	RS	H: Data, L: Instruction code			
5	R₩	H: Read (MPU \rightarrow module), L: Write (MPU \rightarrow module)			
6	E	Chip enable signal			
7	DB0	Data bus line			
8	DB1	Data bus line			
9	DB2	Data bus line			
10	DB3	Data bus line			
11	DB4	Data bus line			
12	DB5	Data bus line			
13	DB6	Data bus line			
14	DB7	Data bus line			
15	A	LED +			
16	К	LED -			





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