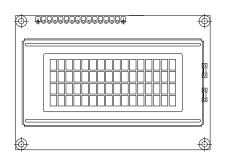


Vishay Dale

16 x 4 Character LCD



MECHANICAL DATA							
ITEM	STANDARD VALUE	UNIT					
Module Dimension	87.0 x 60.0	mm					
Viewing Area	62.0 x 26.0	mm					
Dot Size	0.55 x 0.55	mm					
Character Size	2.95 x 4.75	mm					

FEATURES

- 5 x 8 dots includes cursor
- Built-in controller (KS 0066 or Equivalent)
- + 5V power supply (Also available for + 3V)
- 1/16 duty cycle
- B/L to be driven by pin 1, pin 2 or pin 15, pin 16 or A and K (LED)
- N.V. optional for + 3V power supply

ABSOLUTE MAXIMUM RATING									
ITEM	SYMBOL	STANDARD VALUE UNI							
		MIN.	TYP.	MAX.					
Power Supply	VDD-VSS	- 0.3	_	7.0	V				
Input Voltage	VI	- 0.3	_	VDD	V				

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS										
ITEM	SYMBOL	CONDITION	S	UNIT						
			MIN.	TYP.	MAX.					
Input Voltage	VDD	VDD = + 5V	4.7	5.0	5.3	V				
		VDD = + 3V	2.7	3.0	5.3	V				
Supply Current	IDD	VDD = + 5V	_	1.0	1.2	mA				
		- 20 °C	5.0	5.1	5.7					
Recommended LC Driving	VDD - V0	0°C	4.6	4.8	5.2					
Voltage for Normal Temp.		25°C	4.1	4.5	4.7	V				
Version Module		50°C	3.9	4.2	4.5					
		70°C	3.7	3.9	4.3					
LED Forward Voltage	VF	25°C	_	4.2	4.6	V				
LED Forward Current	IF	25°C	_	220	440	mA				
EL Power Supply Current	IEL	Vel = 110VAC:400Hz	-	-	5.0	mA				

DISPLAY CH	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														0F
DD RAM Address	40	41														4F
DD RAM Address	10	11														1F
DD RAM Address	50	51														5F

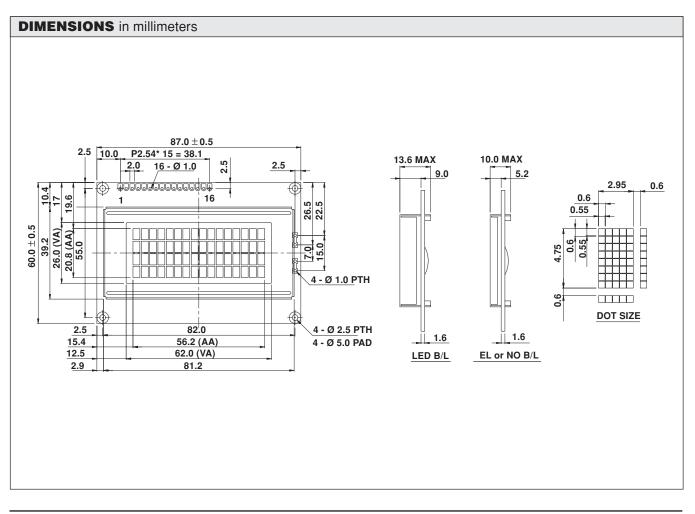
LCD-016M004A

Vishay Dale

16 x 2 Character LCD



PIN NUMBER	SYMBOL	FUNCTION						
1	Vss	GND						
2	Vdd	+ 3V or + 5V						
3	Vo	Contrast Adjustment						
4	RS	H/L Register Select Signal						
5	R/W	H/L Read/Write Signal						
6	E	$H \rightarrow L$ Enable Signal						
7	DB0	H/L Data Bus Line						
8	DB1	H/L Data Bus Line						
9	DB2	H/L Data Bus Line						
10	DB3	H/L Data Bus Line						
11	DB4	H/L Data Bus Line						
12	DB5	H/L Data Bus Line						
13	DB6	H/L Data Bus Line						
14	DB7	H/L Data Bus Line						
15	A/Vee	4.2V for LED/Negative Voltage Output						
16	к	Power Supply for B/L (0V)						





Vishay

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