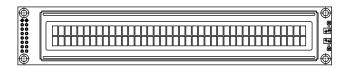




40 x 2 Character LCD



FEATURES

• Type: Character

• Display format: 40 x 2 characters

• Built-in controller: KS 0066 (or equivalent)

• Duty cycle: 1/16

• 5 x 8 dots includes cursor

• + 5 V power supply (also available for + 3 V)

• LED can be driven by pin 1, pin 2, pin 15, pin 16 or A and K

• N.V. optional for + 3 V power supply

• Compliant to RoHS directive 2002/95/EC

MECHANICAL	DATA	
ITEM	STANDARD VALUE	UNIT
Module Dimension	182.0 x 33.5	
Viewing Area	154.4 x 16.5	
Dot Size	0.60 x 0.65	mm
Dot Pitch	0.65 x 0.70	mm
Mounting Hole	175.0 x 26.5	
Character Size	3.2 x 5.55	

ABSOLUT	E MAXIM	IUM RA	ATING	S		
ITEM	SYMBOL	STAN	IDARD V	ALUE	UNIT	
I I E IVI	STIVIBUL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	- 0.3	-	7.0	W	
Input Voltage	VI	- 0.3	-	V_{DD}	V	

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

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	ST	UNIT			
I I EM	STINIBUL	CONDITION	MIN. TYP.		MAX.	UNII	
Input Voltage	V _{DD}	V _{DD} = + 5 V	4.7	5.0	5.3	V	
	V DD	V _{DD} = + 3 V	2.7	3.0	5.3	7 °	
Supply Current	I _{DD}	V _{DD} = + 5 V	-	6.0	8.0	mA	
		- 20 °C	5.0	5.1	5.7		
Recommended LC Driving	V _{DD} to V ₀	0 °C	4.6	4.8	5.2		
Voltage for Normal Temperature Version Module		25 °C	4.1	4.5	4.7	V	
		50 °C	3.9	4.2	4.5		
		70 °C	3.7	3.9	4.3		
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V	
LED Forward Current	I _F	25 °C	-	280	560	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	=	=	5.0	mA	

OPTION	IS								
		PROCES	S 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	

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

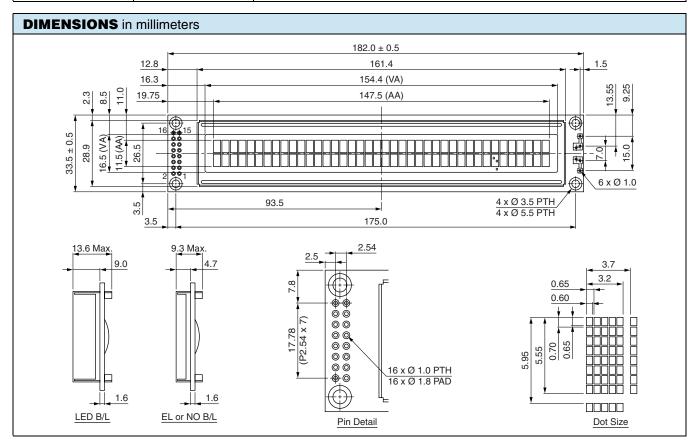
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40 x 2 Character LCD



Display Position																	
1	2 3	4	5	6	7	8	9	10	11	12	13	14	 36	37	38	39	40
DD RAM Address 00	01 02	03	04	05	06	07	08	09	0A	0B	0C	0D	 23	24	25	26	27
DD RAM Address 40	41 42	43	44	45	46	47	48	49	4A	4B	4C	4D	 63	64	65	66	67

INTERFACE	PIN FUNCTION	
PIN NO.	SYMBOL	FUNCTION
1	V _{SS}	Ground
2	V _{DD}	+ 3 V or + 5 V
3	V ₀	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/V _{EE}	+ 4.2 V for LED/negative voltage output
16	К	Power supply for B/L (0 V)





Legal Disclaimer Notice

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