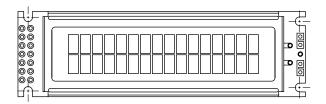




16 x 2 Character LCD



FEATURES

• Type: Character

• Display format: 16 x 2 characters

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

RoHS

• Duty cycle: 1/16

• 5 x 8 dots includes cursor

• + 5 V power supply

• Optional: Smaller character size (2.95 mm x 4.35 mm)

• Compliant to RoHS directive 2002/95/EC

MECHANICAL DATA								
ITEM	STANDARD VALUE	UNIT						
Module Dimension	85.0 x 25.2							
Viewing Area	66.0 x 16.0							
Dot Size	0.55 x 0.65	mm						
Dot Pitch	0.60 x 0.70	mm						
Mounting Hole	80.5 x 22.0							
Character Size	2.95 x 5.55							

ABSOLUTE MAXIMUM RATINGS								
ITEM	SYMBOL	STAN	UNIT					
IIEM	STWIDOL	MIN.	TYP.	MAX.	UNIT			
Power Supply	V_{DD} to V_{SS}	- 0.3	-	7.0	V			
Input Voltage	V_{l}	- 0.3	-	V_{DD}	V			

Note

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

ELECTRICAL CHARACTERISTICS									
ITEM	SYMBOL	CONDITION	ST	UNIT					
II EW	STWIBOL	CONDITION	MIN.	TYP.	MAX.	UNII			
Input Voltage	V _{DD}	V _{DD} = + 5 V	4.7	5.0	5.3	V			
Supply Current	I _{DD}	V _{DD} = + 5 V	-	1.2	1.5	mA			
Recommended LC Driving Voltage for Normal Temperature		- 20 °C	-	-	5.2				
		0 °C	-	-	4.2				
	V_{DD} to V_{0}	25 °C	-	3.8	-	V			
Version Module		50 °C	3.5	-	-				
		70 °C	3.2	-	-				
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V			
LED Forward Current - Array	,	05.00	-	100	-	A			
LED Forward Current - Edge	⊢ I _F	25 °C	-	20	40	mA			
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA			

OPTION	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	

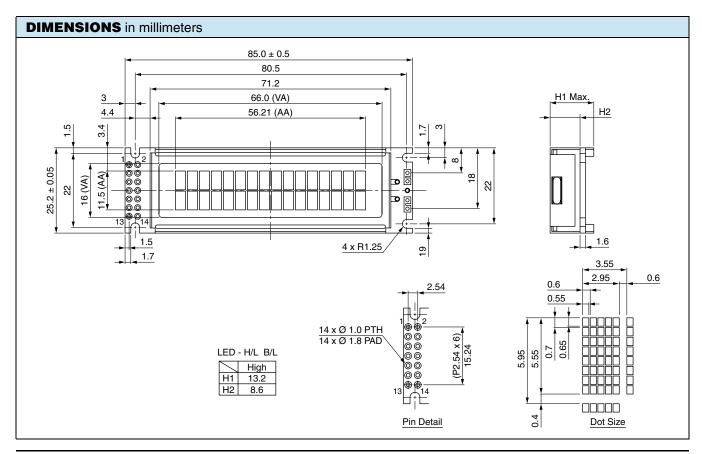
For detailed information, please see the "Product Numbering System" document.

16 x 2 Character LCD



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	08	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	DB7	H/L data bus line					
2	DB6	H/L data bus line					
3	DB5	H/L data bus line					
4	DB4	H/L data bus line					
5	DB3	H/L data bus line					
6	DB2	H/L data bus line					
7	DB1	H/L data bus line					
8	DB0	H/L data bus line					
9	E	$H \rightarrow L$ enable signal					
10	R/W	H/L read/write signal					
11	RS	H/L register select signal					
12	V ₀	Contrast adjustment					
13	V _{SS}	Ground					
14	V _{DD}	Power supply (+ 5 V)					





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