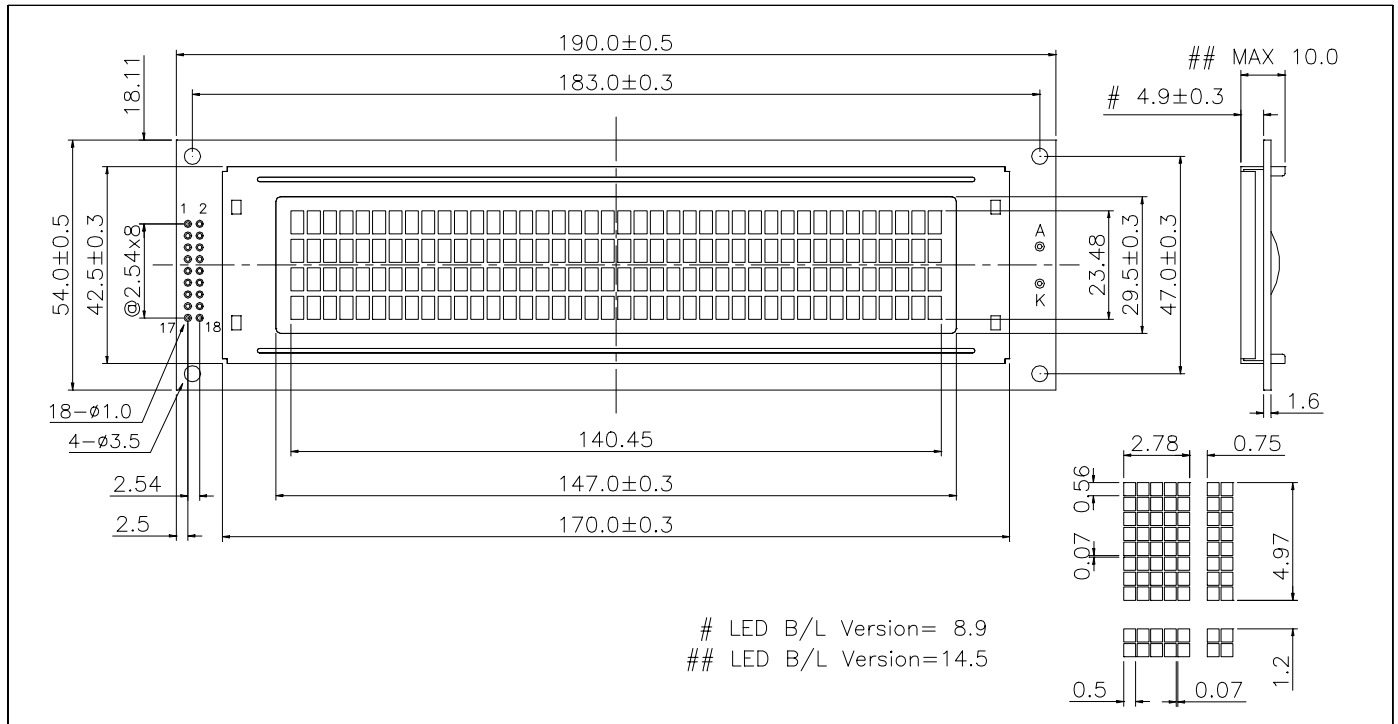


LC4041

40 characters x 4 lines



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD} - V _{SS}	-0.3	7.0	V
Supply Voltage(LCD)	V _{DD} - V _O	-0.3	13.0	V
Input Voltage	V _I	-0.3	V _{DD} + 0.3	V
Operating Temp.	T _{opr}	-20	70	°C
Storage Temp.	T _{stg}	-30	80	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	190.0 x 54.0 x 10.0/14.5	mm
Viewing Area (W x H)	147.0 x 29.5	mm
Character Size (W x H)	2.78 x 4.97	mm
Dot Size (W x H)	0.5 x 0.56	mm
Weight (Reflective/LED)	Approx. 95 / 125	g

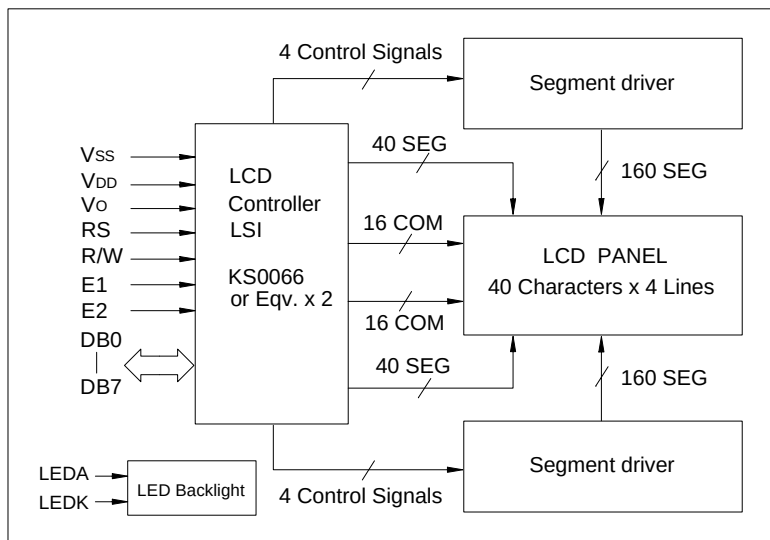
ELECTRICAL CHARACTERISTICS (V_{DD}=5V±0.25V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	--	2.2	--	V _{DD}	V
Input Low Voltage	V _{IL}	--	-0.3	--	0.6	V
Output High Voltage	V _{OH}	I _{OH} = -0.2mA	2.4	--	V _{DD}	V
Output Low Voltage	V _{OL}	I _{OL} = 1.2mA	0	--	0.4	V
Supply Current	I _{DD}	V _{DD} = 5.0V	--	3.0	5.0	mA
LCD Driving Voltage	V _{DD} - V _O	T _a =25°C	--	4.6	--	V

PIN CONNECTIONS

Pin	Symbol	Level	Function
1	DB7	H/L	In 8-bit bus mode, used as high order bidirectional data bus. In 4-bit bus mode, used as both high and low order data bus.
2	DB6	H/L	
3	DB5	H/L	
4	DB4	H/L	
5	DB3	H/L	In 8-bit bus mode, used as low order bidirectional data bus. In 4-bit bus mode, open these pins.
6	DB2	H/L	
7	DB1	H/L	
8	DB0	H/L	
9	E1	H,H>L	Enable signal 1
10	R/W	H/L	H : Read L : Write
11	RS	H/L	H : Data L : Instruction code
12	V _O	--	Operating voltage for LCD
13	V _{SS}	0V	GND
14	V _{DD}	+5V	Power supply for logic
15	E2	H,H>L	Enable signal 2
16	NC	--	No connection
17	LEDA	+5V	Power supply for LED backlight
18	LEDK	0V	

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS (T_a=25°C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V _f	4.1	4.3	V
Forward Current	I _f	500	--	mA
Emission Wave Length	λ _p	568	--	nm