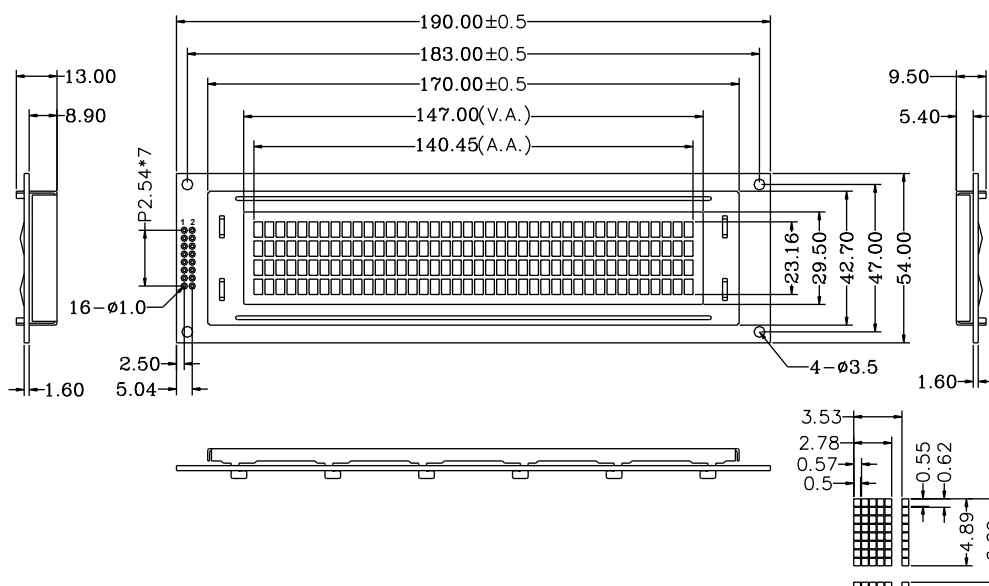



Outline Dimension

Feature

1. 5X8 dots with cursor
2. Display format:40 characters*4 lines
3. Built-in controller:KS0066U or compatible
4. +5V power supply
5. 1/16duty, 1/5 bias cycle
6. STN;FSTN mode
7. Viewing direction: 6:00 or 12:00 oclock

Interface pin connections

PIN NO	Symbol	Function
1	DB7	Four high order bi-directional three-state data bus lines.Used for data transfer between the MPU
2	DB6	
3	DB5	
4	DB4	
5	DB3	Four low order bi-directional three-state data bus lines.Used for data transfer between the MPU and the LCM.
6	DB2	
7	DB1	
8	DB0	
9	E1	Operation enable signal
10	R/W	Read/write select signal
11	RS	Register select signal
12	V0	Power supply
13	VSS	
14	VDD	
15	E2	Enable signal
16	NC	-

Mechanical Data

Item	Standard	Unit
Module dimension	190.0x54.0	mm
Viewing area	147.0x29.5	mm
Dot size	0.57x0.62	mm
Character size	2.78x4.89	mm

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	-----	7.0	V
Input voltage	VI	-0.3	-----	VDD+0.3	

Electronical characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	-----	4.5	5.0	5.5	V
		+3.3V	2.7	3.0	5.3	V
Supply current	I _{DD}	VDD=5V	-----	1.5	3.0	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20°C	-----	-----	-----	V
		0 °C	4.7	4.7	5.0	
		25°C	4.3	4.5	4.7	
		50°C	4.1	4.3	4.5	
		70°C	-----	-----	-----	
LED forward voltage	VF	25°C	-----	4.2	4.6	V
LED forward current	IF	25°C	-----	300	-----	mA
EL power supply current	I _{EL}	V _{EL} =110V AC 400Hz	-----	-----	-----	mA

Display character address code:

Display position	1	2	3	4	5	6	---	---	---	40
DDRAM address	00	01	02	---	---	---	---	---	---	27H
DDRAM address	40	41	42	---	---	---	---	---	---	67H