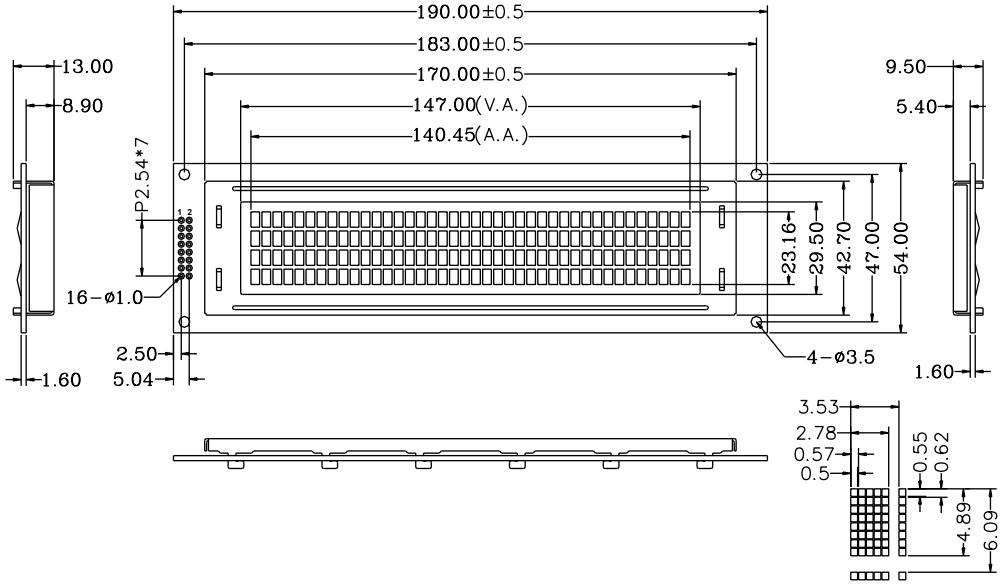
Outline Dimension



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 betweenthe MPU
2	DB6	
3	DB5	
4	DB4	
5	DB3	Four low order bi-directional three-state data bus lines.Used for data transfer betwween 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	*IDD*	VDD=5V	------	1.5	3.0	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20ºC	------	------	------	V
		0 ºC	4.7	4.7	5.0	
		25ºC	4.3	4.5	4.7	
		50ºC	4.1	4.3	4.5	
		70ºC	------	-------	------	
LED forward voltage	*VF*	25ºC	------	4.2	4.6	V
LED forward current	*IF*	25ºC	------	300	------	mA
EL power supply current	IEL	VEL=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*