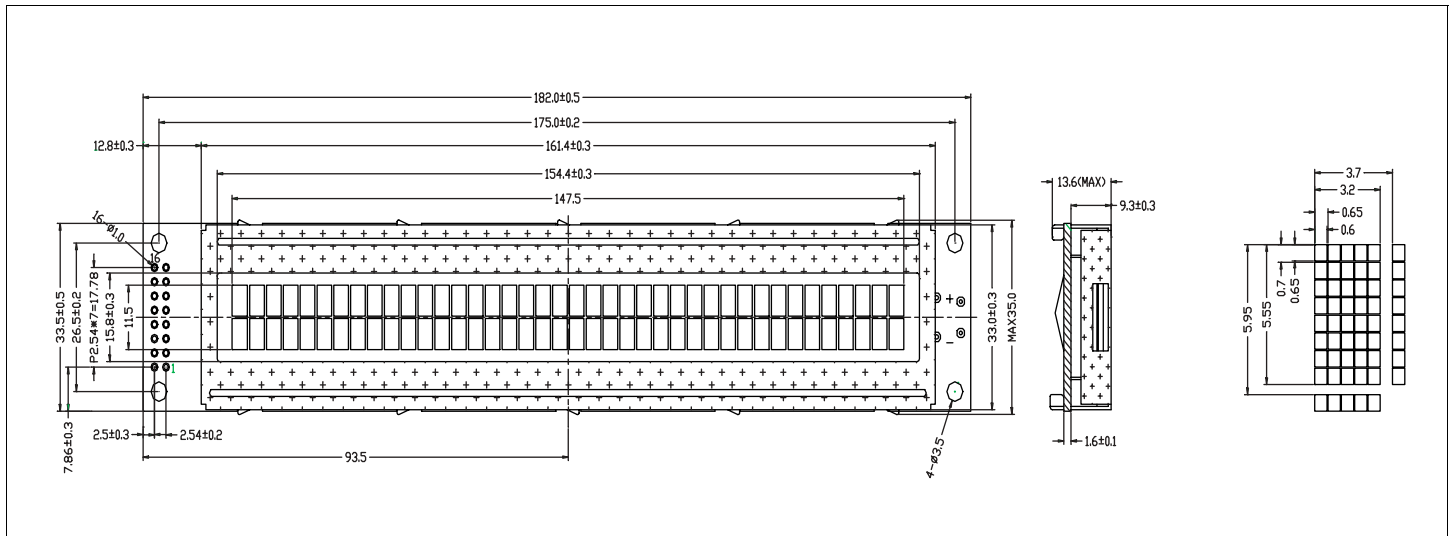


HDM40216L-1

Dimensional Drawing

40 Character x 2 Lines, LED Backlight



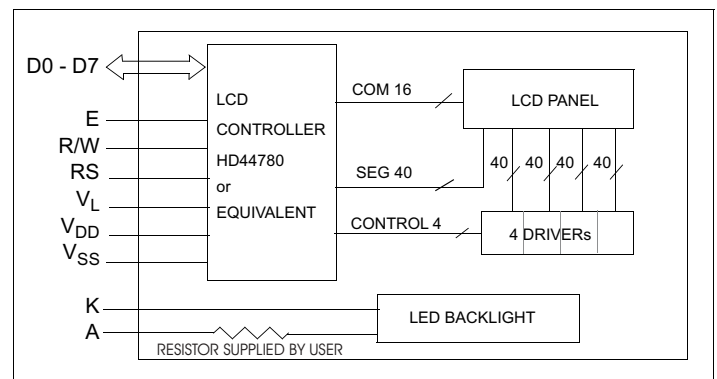
Features

Character Format 5x7 Dots with Cursor
Backlight.....White or Yellow LED
Options.....TN/Gray STN/Yellow STN, FSTN
12 o'Clock/6 o'Clock View
Normal/Extended Temperature
Normal/Negative Displays

Physical Data

Module Size182.0W x 33.5H x 13.6T mm
Viewing Area Size.....154.4W x 15.8H mm

Block Diagram



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	$V_{DD}-V_{SS}$	0	7.0	V
SUPPLY VOLTAGE FOR LCD	$V_{DD}-V_L$	0	13.5	V
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	70	°C
LED REVERSE VOLTAGE (White)	V_R	-	5	V
(Yellow)		-	8	

Electrical Characteristics (VDD=5.0±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
POWER SUPPLY CURRENT	I _{DD}	V _{DD} =5.0V	-	1.21	3.0	mA
POWER SUPPLY FOR LCD	V _{DD} -V _L	T _A =25°C	4.2	4.7	5.2	V
LED FORWARD Vtg (White)	V _F	I _F =40mA	4.3	4.6	4.9	V
(Yellow/green)		I _F =260mA	3.85	4.05	4.25	
BRIGHTNESS (White LED)	L	I _F =40mA	-	135	-	cd/m ²
(Yellow/green LED)		I _F =260mA	80	100	-	
LED POWER (White)	P _D		-	-	200	mW
(Yellow)			-	-	1100	
DRIVE METHOD	1/16 Duty					

Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V _{SS}	-	0V	Power supply
2	V _{DD}	-	5V	
3	V _L	-	-	
4	RS	H/L	H: Data input L: Instruction data input	
5	R/W	H/L	H: Data read L: Data write	
6	E	H	Enable signal	
7	D0	H/L	Data bus	
8	D1	H/L		
9	D2	H/L		
10	D3	H/L		
11	D4	H/L		
12	D5	H/L		
13	D6	H/L		
14	D7	H/L		
15	A	-	Anode for LED backlight	
16	K	-	Cathode for LED backlight	