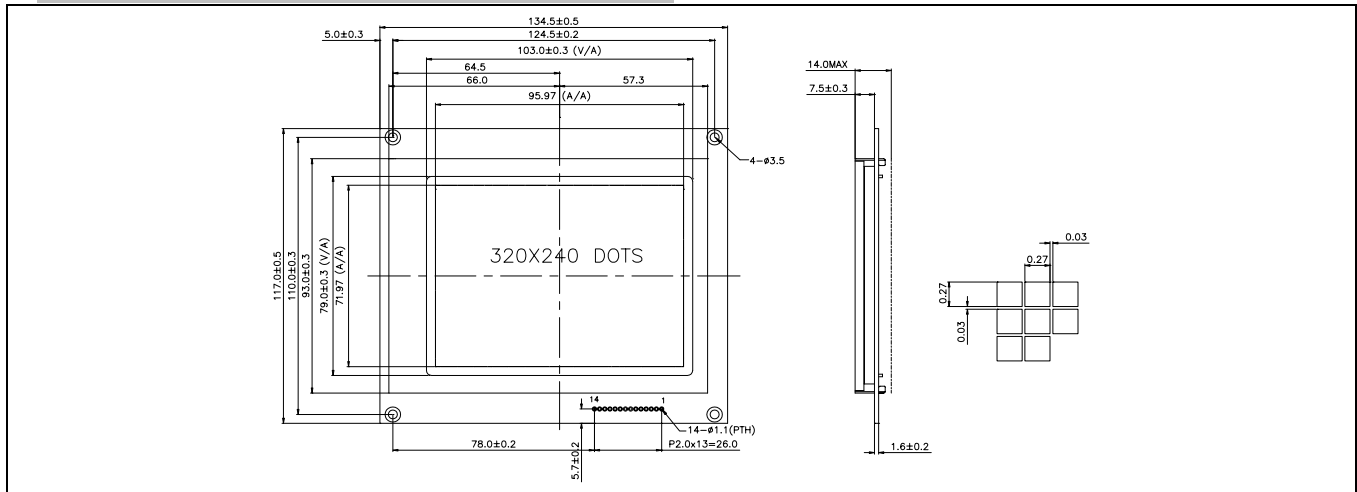


# HE326XX51

320 X 240 Dots

## 1. EXTERNAL DIMENSION AND DISPLAY PATTERN



## 2. MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	134.5×117.0×14.0	mm
Viewing Area (W×H)	103.0×79.0	mm
Number of Dots (W×H)	320×240	dots
Dot Pitch (W×H)	0.3×0.3	mm
Dot Size (W×H)	0.27×0.27	mm

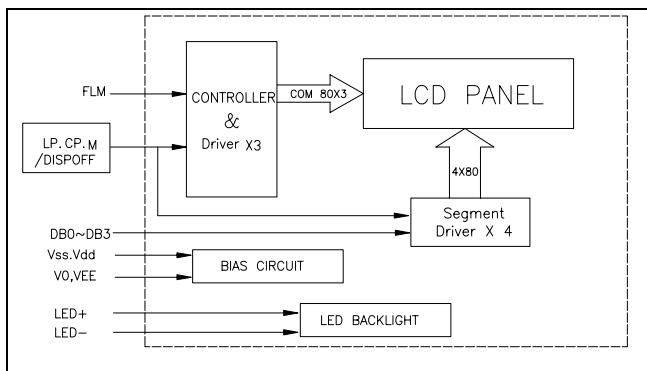
## 3. ELECTRICAL CHARACTERISTICS (Ta=25°C)

ITEM	SYMBOL	CONDITION	SPEC. VALUE			UNIT	
			MIN.	TYP.	MAX.		
Supply Voltage (Logic)	$V_{DD} - V_{SS}$		2.7	5.0	5.5	V	
Supply Current (Logic)	$I_{DD}$	$V_{DD}=5V$	-	8.7	13.0	mA	
Input Voltage	"HIGH"	$V_{IH}$	-	$0.8V_{DD}$	-	$V_{DD}$	V
	"LOW"	$V_{IL}$	-	0	-	$0.2V_{DD}$	V
Output Voltage	"HIGH"	$V_{OH}$	$I_{OH}=-0.4mA$	$V_{DD}-0.4$	-	-	V
	"LOW"	$V_{OL}$	$I_{OL}=0.4mA$	-	-	0.4	V
LCD Operating Voltage	$V_{DD} - V_0$	$V_{DD}=5V, Ta=25^\circ C$	-	22.9	-	V	
Supply Voltage LCD Drive	$I_o$		-	4.5	-	mA	

## 4. PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION	PIN	SYMBOL	SIGNAL DESCRIPTION
1	$V_0$	Operating Voltage for LCD (Variable)	8	$V_{DD}$	Logic Voltage
2	$V_{EE}$	Power Supply for LCD	9	CL2	Display Data Shift Clock
3	DB <sub>3</sub>	Data Bit 3	10	CL1	Display Data Latch Clock
4	DB <sub>2</sub>	Data Bit 2	11	FLM	Frame Signal
5	DB <sub>1</sub>	Data Bit 1	12	K	Cathode for LED B/L
6	DB <sub>0</sub>	Data Bit 0	13	A	Anode for LED B/L
7	$V_{SS}$	Ground	14	NC	No Connection

## 5. BLOCK DIAGRAM



## 6. BACKLIGHTING CHARACTERISTICS (Ta=25°C) LED

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage	$V_{LED}$	-	-	21.5	-	V
Power Consumption	$P_{LED}$	-	-	430	-	mW
Luminous	$I_v$	$I_L=20.0mA$	10	-	-	cd/m <sup>2</sup>