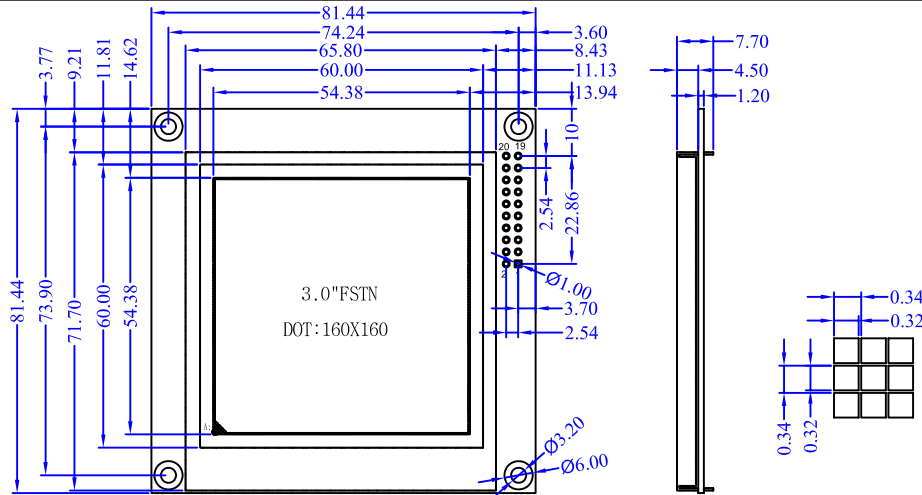


1. DIMENSION OUTLINE



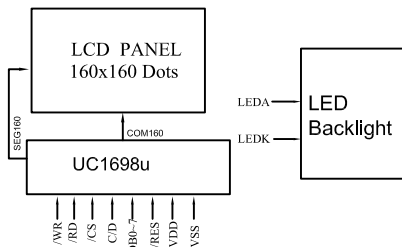
2. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	81.44×81.44×7.70	mm	Reference Dimensional Outline
View Area(W×H)	60.0×60.0	mm	
Effective V/Area	54.38×54.38	mm	
Number of Characters	160×160	-	
Dot Pitch(W×H)	0.34×0.34	mm	
Dot Size(W×H)	0.32×0.32	mm	
Weight (Reflective/Led)	-	g	

3. ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V _{DD}	Ta=25°C	-0.3V	3.6V
LCD Voltage	V _{LCD}		-0.3V	19.8V
Input Voltage	V _I		-0.3V	V _{DD} +0.3V
Operation Temperature	T _{OP}	—	-20°C	70°C
Storage Temperature	T _{st}	—	-30°C	80°C

4. BLOCK DIAGRAM MECHANICAL



5. LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C				
Forward Voltage	V _f	3.1	3.2	V
Forward Current	I _f	60	—	mA
Emission Wavelength	λ _p	—	—	nm

7. ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V _{DD}	3.0	3.3	3.6	V
Input High Voltage	V _{IH}	0.8V _{DD}	—	—	V
Input Low Voltage	V _{IL}	—	—	0.2V _{DD}	V
Output High Voltage	V _{OH}	0.8V _{DD}	—	—	V
Output Low Voltage	V _{OL}	—	—	0.2V _{DD}	V
Logic Current	I _{DD}	—	15	25	mA
Operation Voltage For LCD	V _{DD-V0}	—	16.5	—	V

6. INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	VSS	0V	Power Ground
2	VDD	+3.3V	Power supply for logic
3	NC	—	No connection
4	/WR	H/L	Write signal
5	/RD	H/L	Read signal
6	/CS	L	Chip enable signal
7	A0	H/L	H:data L:command
8	/RES	L	Reset signal
9	DB0	H/L	Data Bus
10	DB1	H/L	
11	DB2	H/L	
12	DB3	H/L	
13	DB4	H/L	
14	DB5	H/L	
15	DB6	H/L	
16	DB7	H/L	
17	NC	—	No connection
18	NC	—	No connection
19	LEDA	+3.3V	Power supply for LED Backlight
20	LEDK	0V	