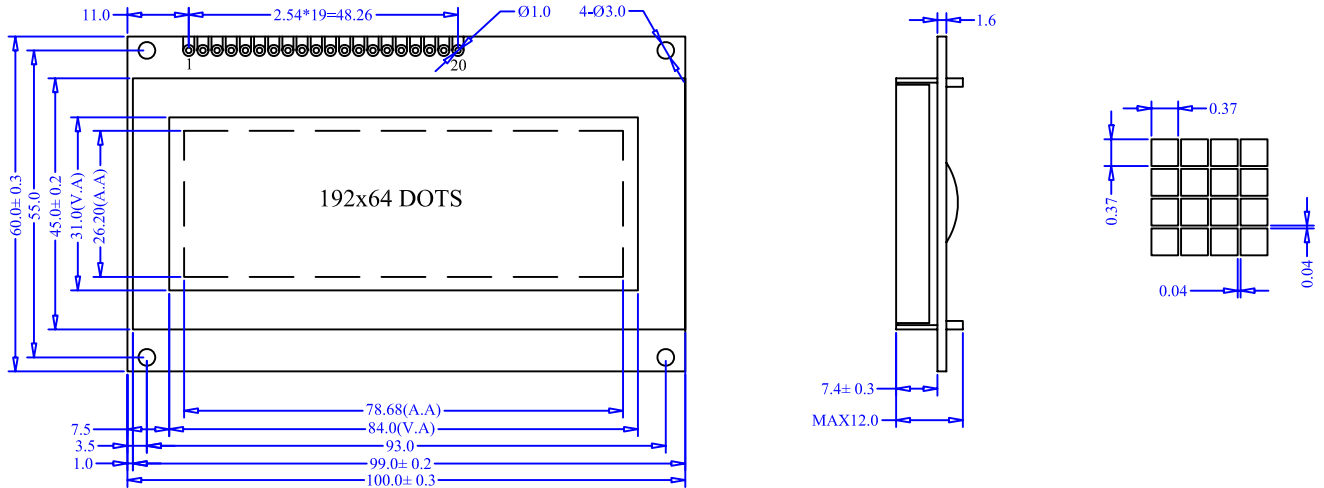


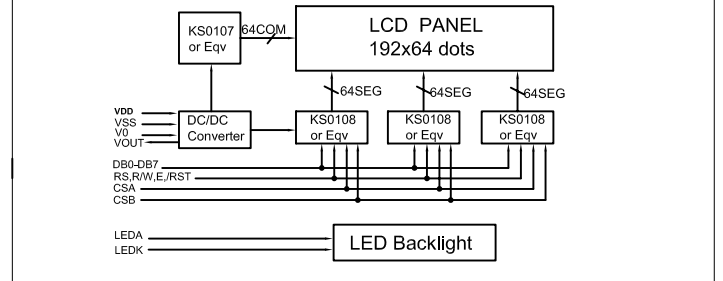
1.DIMENSION OUTLINE



2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	100.0×60.0×12.0	mm	Reference Dimensional Outline
View Area(W×H)	84.0×31.0	mm	
Effective V/Area	78.68×26.20	mm	
Number of Characters	192×64	-	
Dot Pitch(W×H)	0.41×0.41	mm	
Dot Size(W×H)	0.37×0.37	mm	
Weight (Reflective/Led)	-	g	

3.BLOCK DIAGRAMMECHANICAL



4.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT	
Ta=25°C					
①	Forward Voltage	V _f	4.1	4.3	V
	Forward Current	I _f	180	—	mA
	Emission Wave Length	λ _p	568	—	nm
②	Forward Voltage	V _f	3.0	3.3	V
	Forward Current	I _f	60	80	mA
	Emission Wave Length	λ _p	—	—	nm

5.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V _{DD}	Ta=25°C	-0.3V	7V
LCD Voltage	V _{LCD}		-0.3V	17.5V
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

6.INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1-8	DB7-DB0	H/L	Data Bus
9	E	H,H→L	Enable signal
10	R/W	H/L	H:read L:write
11	RS	H/L	H:data L:command
12	V0	—	Contrast adjust
13	VDD	+5V	Power supply for logic
14	VSS	0V	Power Ground
15	CSA	H/L	Chip selection Signal 00:Chip 1 01:Chip 2 10:Chip 3
16	CSB	H/L	
17	VOUT	—	Output voltage for led driving
18	/RST	L	Reset signal
19	LEDA	+5V	LED B/L Power Supply
20	LEDK	0V	

7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V _{DD}	4.5	5	5.5	V
Input High Voltage	V _{IH}	0.8V _{DD}	—	V _{DD}	V
Input Low Voltage	V _{IL}	V _{SS}	—	0.8	V
Output High Voltage	V _{OH}	2.4	—	—	V
Output Low Voltage	V _{OL}	0	—	0.4	V
Logic Current	I _{DD}	—	6	8	mA
Operation Voltage For LCD	V _{DD} -V ₀	—	12	—	V