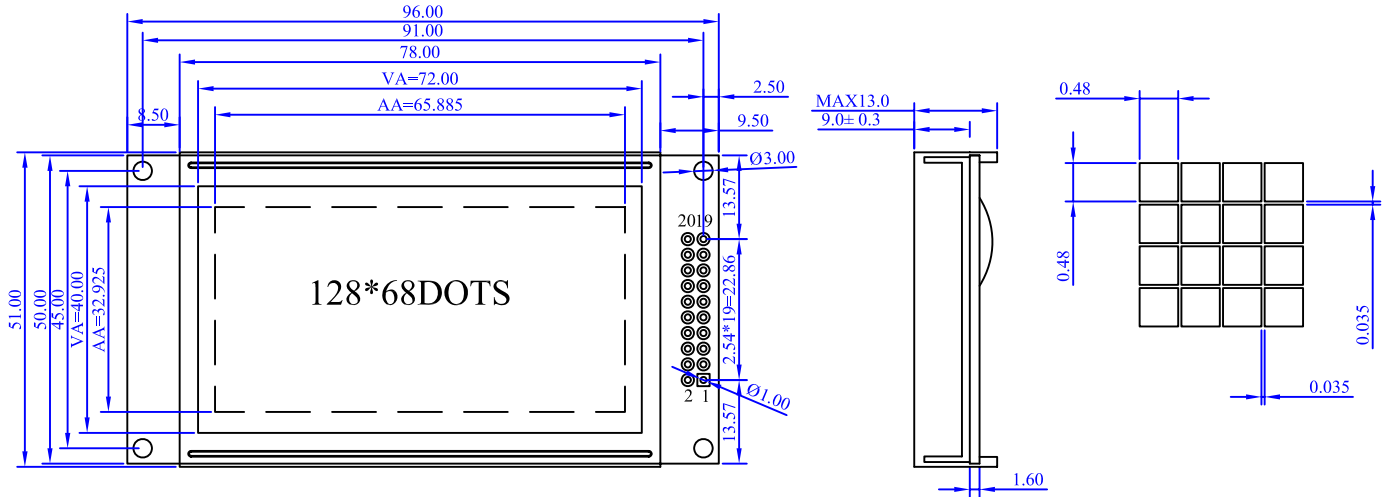


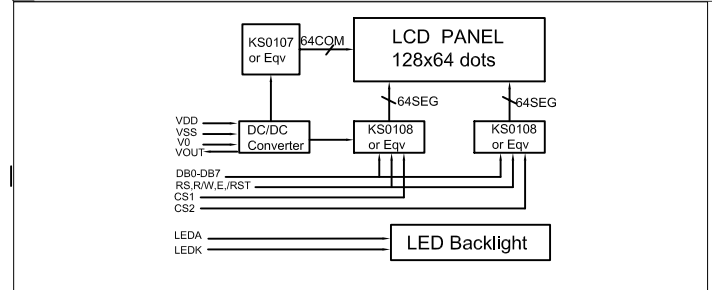
## 1.DIMENSION OUTLINE



## 2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	96.0×51.0×13.0	mm	Reference Dimensional Outline
View Area(L×W)	72.0×40.0	mm	
Effective V/Area	65.885×32.925	mm	
Number of Characters	128×64	-	
Dot Pitch(L×W)	0.515×0.515	mm	
Dot Size(W×H)	0.48×0.48	mm	
Weight (Reflective/Led)	-	g	

## 3.BLOCK DIAGRAMMECHANICAL



## 4.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT	
Ta=25°C					
①	Forward Voltage	V <sub>f</sub>	4.1	4.3	V
	Forward Current	I <sub>f</sub>	360	—	mA
	Emission Wave Length	λ <sub>p</sub>	568	—	nm
②	Forward Voltage	V <sub>f</sub>	3.0	3.3	V
	Forward Current	I <sub>f</sub>	60	—	mA
	Emission Wave Length	λ <sub>p</sub>	—	—	nm

## 5.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V <sub>DD</sub>	Ta=25°C	-0.3V	7V
LCD Voltage	V <sub>LCD</sub>		-0.3V	9.5V
Input Voltage	V <sub>I</sub>		-0.3V	V <sub>DD</sub> +0.3V
Operation Temperature	T <sub>OP</sub>	—	-20°C	70°C
Storage Temperature	T <sub>St</sub>	—	-30°C	80°C

## 6.INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	VSS	0V	Power Ground
2	VDD	+5V	Power supply for logic
3	V0	—	Contrast adjust
4	RS	H/L	H:data L:command
5	R/W	H/L	H:read L:write
6	E	H.H→L	Enable signal
7-14	DB0-DB7	H/L	Data Bus
15	CS1	H	Chip selection IC1
16	CS2	H	Chip selection IC2
17	/RST	L	Reset signal
18	VOUT	—	Output voltage for LCD driving
19	LEDA	+5V	Power supply for LED backlight
20	LEDK	0V	

## 7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V <sub>DD</sub>	4.5	5	5.5	V
Input High Voltage	V <sub>IH</sub>	0.8V <sub>DD</sub>	—	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	VSS	—	0.8	V
Output High Voltage	V <sub>OH</sub>	2.4	—	—	V
Output Low Voltage	V <sub>OL</sub>	0	—	0.4	V
Logic Current	I <sub>DD</sub>	—	6	8	mA
Operation Voltage For LCD	V <sub>DD-V0</sub>	—	9	—	V