

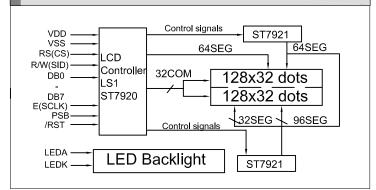
## 2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Modeule Size(L $\times$ W $\times$ H)	$93.0 \times 70.0 \times 13.0$	mm	
View Area(W×H)	$72.0 \times 40.0$	mm	
Effective V/Area	66.52×33.24	mm	Reference
Number of Characters	128×64	-	Dimensional Outline
Dot Pitch(W×H)	$0.52 \times 0.52$	mm	Guime
Dot Size(W×H)	$0.48 \times 0.48$	mm	
Weight (Reflective/Led)	-	g	

## 3.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD		
IIEM		CONDITION	MIN	MAX	
Logic Voltage	Vdd		-0.3V	5.5V	
LCD Voltage	VLCD	Ta=25℃	-0.3V	7V	
Input Voltage	Vı		-0.3V	V <sub>DD</sub> +0.3V	
Operation Temperature	Тор	-	-20℃	70℃	
Storage Temperature	Tst	_	-30℃	80°C	

## 4.BLOCK DIAGRAMMECHANICAL



## 5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	ТҮРЕ	MAX	UNIT		
Ta=25°C						
Forward Voltage	$ m V_{ m f}$	4.1	4.3	V		
Forward Current	If	360	_	mA		
Emission Vave Length	<b>λ</b> P	568	_	nm		

## 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(CS)	H/L	H:data L:command	
5	RW/(SID)	H/L	H:read L:write	
6	E/(SCLK)	H.H→L	Enable signal	
7-14	DB0-DB7	H/L	Data Bus	
15	PSB	H/L	H:Paraller mode L:serial mode	
16	NC	_	No connection	
17	/REST	L	Reset signal	
18	VOUT	-	Output LCD voltage	
19	LEDA	+5V	Power supply for LED backlight	
20	LEDK	0V	Tower supply for LED backlight	

# 7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT		
Ta=25°C							
Logic Power	Vdd	4.5	5	5.5	V		
Input High Voltage	Vih	0.7VDD	İ	Vdd	V		
Input Low Voltage	VIL	-0.3	1	0.6	V		
Output High Voltage	Voh	0.8VDD	ı	VDD	V		
Output Low Voltage	Vol	0	l	0.4	V		
Logic Current	Idd		3	5	mA		
Operation Voltage For LCD	V0-GND	_	5	_	V		