# **HS161-1** 16 chracters x 1

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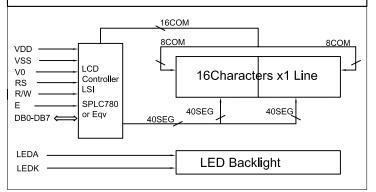
## 2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Modeule Size(L $\times$ W $\times$ H)	80.0×36.0×9.5	mm	
View Area(W×H)	64.5×13.8	mm	
Effective V/Area	59.45×5.95	mm	Reference
Number of Characters	16CH×1Line	_	Dimensional Outline
Character Size(WxH)	3.20×5.95	mm	Guine
Dot Size(W×H)	$0.60 \times 0.70$	mm	
Weight(Reflective/Led)	_	g	

## 3.ABSOLUTE MAXIMUM RATINGS

ICEA	SYMBOL	CONDITION	STANDARD		
ITEM		CONDITION	MIN	MAX	
Logic Voltage	Vdd		-0.3V	7V	
LCD Voltage	VLCD	Ta=25°C	-0.3V	13V	
Input Voltage	VI		-0.3V	V <sub>DD</sub> +0.3V	
Operation Temperature	Тор	_	-20°C	70℃	
Storage Temperature	Vop	-	-30℃	80℃	

### 4.BLOCK DIAGRAMMECHANICAL



### 5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL TYPE		MAX	UNIT		
Ta=25°C						
Forward Voltage	$V_{\mathrm{f}}$	4.1	4.3	V		
Forward Current	If	110	_	mA		
Emission Vave Length	<b>λ</b> P	568	_	nm		

#### 6. INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS	
1	VSS	_	Power Supply For Logic	
2	VDD	=	Power Ground	
3	V0	_	Contrast adjust	
4	RS	H/L	H:data L:command	
5	R/W	H/L	H:read L:write	
6	Е	H. H→L	Enable singnal	
7-14	DB0-DB7	H/L	Data Bus	
15	LEDA	+5V	Power supply For LED Backlight	
16	LEDK	0V	Tower suppry For EED Backfight	

### 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	2.2	_	Vdd	V		
Input Low Voltage	VIL	-0.3	_	0.8	V		
Output High Voltage	Voh	2.4	_	Vdd	V		
Output Low Voltage	Vol	0	_	0.4	V		
Logic Current	Idd	_	1.2	3.0	mA		
Operation Voltage For LCD	Vdd-Vo	_	4.6	_	V		