

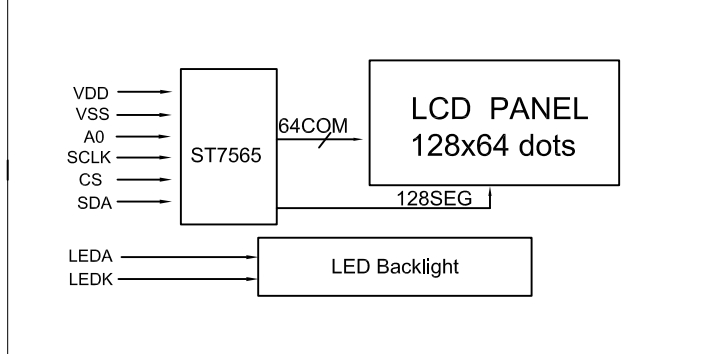
2. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	96.0×51.4×7.2	mm	Reference Dimensional Outline
View Area(W×H)	73.1×42.5	mm	
Effective V/Area	66.52×42.5	mm	
Number of Characters	128×64	-	
Dot Pitch(W×H)	0.52×0.52	mm	
Dot Size(W×H)	0.48×0.48	mm	
Weight (Reflective/Led)	-	g	

3. 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	11V
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 DIAGRAMMECHANICAL



5. LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C				
Forward Voltage	V _f	4.1	4.3	V
Forward Current	I _f	200	—	mA
Emission Wave Length	λ _P	571	—	nm

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}	0.7V _{DD}	—	V _{DD}	V
Input Low Voltage	V _{IL}	V _{SS}	—	0.6	V
Output High Voltage	V _{OH}	0.8V _{DD}	—	V _{DD}	V
Output Low Voltage	V _{OL}	0	—	0.4	V
Logic Current	I _{DD}	—	10	18	mA
Operation Voltage For LCD	V _{DD} -V ₀	—	9.5	—	V

6. INTERFACE PIN CONNECTIONS

ITEM		SYMBOL	LEVEL	FUNCTIONS
CON4	CON2			
1~3	1~3	T1~T3	---	The custom interface
4	4	T4/A0	---	The custom interface/command or data
5~7	5~7	T5~T7	---	The custom interface
8	8	LEDA	+5V	LED B/L Power Supply
9	9	LEDK	0V	LED B/L Power Supply
10		NC	---	No connection
ITEM		SYMBOL	LEVEL	FUNCTIONS
CON1	CON3			
1	2	EN-IR	---	The custom interface
2	1	VDD	+5V	Power supply for logic
3		CS	H/L	Chip select pin
4		SCLK	H/L	Clock signal
5		SDA	H/L	Data bus
6	4	GND	0V	Power Ground
7		VDD	+5V	Power supply for logic
8		LEDA	+5V	LED B/L Power Supply
9		LEDK	0V	LED B/L Power Supply
10~12		T7~T5	---	The custom interface
13		T4/A0	---/H/L	The custom interface/command or data
14~16		T3~T1	---	The custom interface
17		GND	0V	Power Ground
18	3	EN-C	---	The custom interface