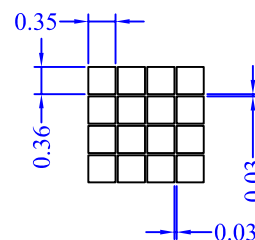
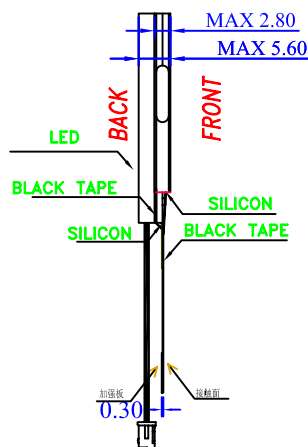
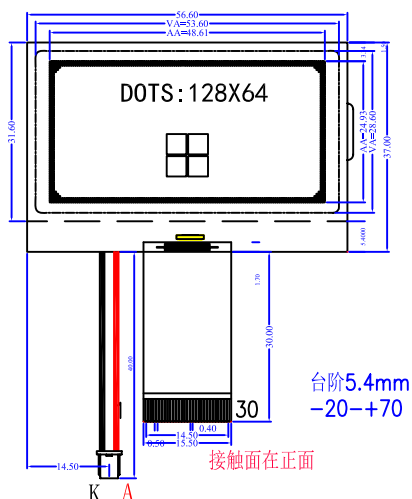


1. DIMENSION OUTLINE



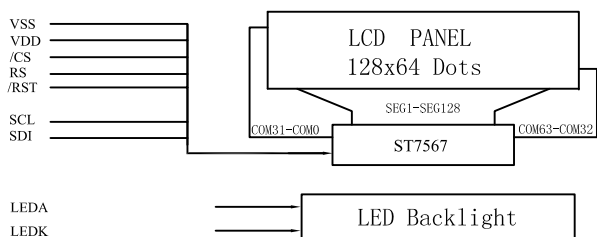
2. MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	56.60×77.0×5.6	mm	Reference Dimensional Outline
View Area(L×W)	53.6×28.6	mm	
Effective V/Area	48.61×24.93	mm	
Number of Characters	128×64	-	
Dot Pitch(L×W)	0.38×0.39	mm	
Dot Size(L×W)	0.35×0.36	mm	

3. ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V _{DD}	Ta=25℃	0.3V	4.0V
LCD Voltage	V _{LCD}		0.3V	12V
Input Voltage	V _I		-0.3V	V _{DD} +0.3V
Operation Temperature	T _{OP}	—	-20℃	70℃
Storage Temperature	T _{St}	—	-30℃	80℃

4. BLOCK DIAGRAM MECHANICAL



6. INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS	
	PIN1			
1	NC	---	NC	
2	PSB	H/L	L:Serial	H:Parallel
3	C86	H/L	L:8080	H:0086
4	NC	---	NC	
5	NC	---	NC	
6	NC	---	NC	
7	NC	---	NC	
8	NC	---	NC	
9	VG	---	Lcd driving voltage for common circuits at positive regulator	
10	NC	---	NC	
11	NC	---	NC	
12	XVO	---	Lcd driving voltage for common circuits at positive frame	
13	VO	---	Lcd driving voltage	
14	NC	---	NC	
15	NC	---	NC	
16	VSS	0V	Power Ground	
17	VDD	+3.3V	Power supply for logic	
18	D7	H/L	Data Bus	Serial Data Input
19	D6	H/L		Serial Clock Input
20	D5	H/L		NC
21	D4	H/L		
22	D3	H/L		
23	D2	H/L		
24	D1	H/L		
25	D0	H/L		
26	/RD	H	Rade signal	
27	/WR	L	Write signal	
28	AO	H/L	L:command	H:data
29	RST	L	Reset signal	
30	CS	L	Chip select signal	

5. LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25℃				
Forward Voltage	V _f	3.0	3.1	V
Forward Current	I _f	45	—	mA
Emission Vave Length	λ _P	White	—	nm

7. ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25℃					
Logic Power	V _{DD}	2.7	3.3	3.6	V
Input High Voltage	V _{IH}	0.8V _{DD}	—	V _{DD}	V
Input Low Voltage	V _{IL}	0	—	0.2V _{DD}	V
Output High Voltage	V _{OH}	V _{DD} -0.4	—	V _{DD}	V
Output Low Voltage	V _{OL}	0	—	0.4	V
LCM Current	I _{DD}	—	—	33	mA
Operation Voltage For LCD	V ₀ -V _{SS}	—	10.0	—	V