TEL：0755-25324802 FAX：0755-83959069

G12864S-GB(Q) | 128 DOTS×64 DOTS

1.FEATURE

LCD TYPE	STN/FSTN
LCM BACKLIGHT TYPE	LED/EL BACKLIGHT
LCM CONTROLLER IC	BUILT IN ST7920 OR EQUIVALENT
POWER SUPPLY FOR LCM	DC +5.0V OR +3.3V
LED BACKLIGHT INPUT	DC +5.0V OR + 3.3V
EL BACKLIGHT INPUT	---
EL INVERTER	---
FL BACKLIGHT INPUT	-
FL INVERTER	-
LCM DIMENSION	54.0*50*7.5 mm
LCM VIEWING AREA	43.5*29 mm
LCD DOT SIZE	0.28*0.35 mm
LCD DOT PITCH	0.32*0.39 mm

2.ELECTRICAL CHARACTERISTICS:

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	V_{DD}-V_{SS}	Ta＝25℃	4.5	5.0	5.5	V
SUPPLY VOLTAGE FOR LCD DRIVER	V_{EE}-V_{SS}	Ta＝25℃	-	-	-5.0	V
OPERATING VOL. FOR LCD MODULE	V_{DD}-V_O	Ta＝25℃	-	8.0	-	V
INPUT HIGH VOL	V_{IH}	—	0.7V_{DD}	-	V_{DD}	V
INPUT LOW VOL.	V_{IL}	—	0	-	0.3V_{DD}	V
SUPPLY CURRENT FOR LOGIC	I_{DD}	V_{DD}=5.0V	-	-	7.0	mA
SUPPLY CURRENT FOR LCD	I_{LCD}	V_O=-3.0V	-	-	12.0	mA
LED CURRENT	I_F	Ta＝25℃	-	60	-	mA
LED DISSIPATION	P_D	Ta＝25℃	-	300	-	mW

3.ABSOLUTE MAXIMUM RATINGS:

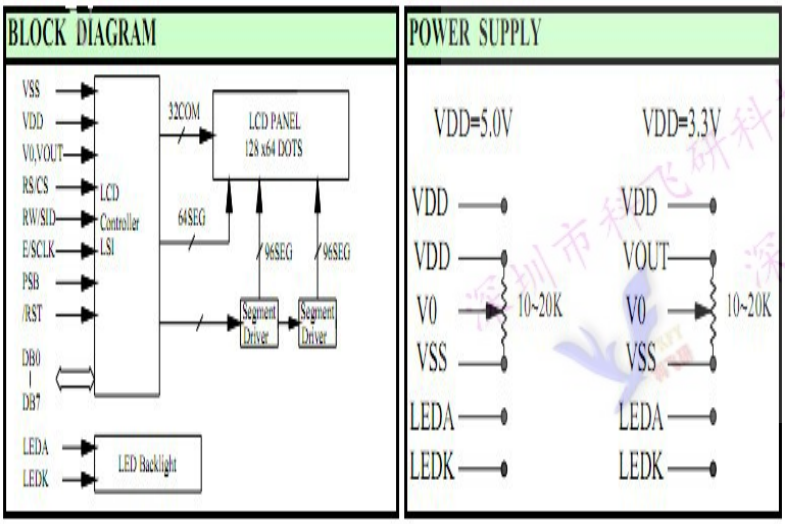
ITEM	SYM	MIN	TYP	MAX	UNIT
OPERATING TEMP.	T_{OP}	-20	-	+70	℃
STORAGE TEMP.	T_{ST}	-30	-	+80	℃
INPUT VOLTAGE	V_I	V_{SS}	-	V_{DD}	V
SUPPLY VOL. FOR LOGIC	V_{DD}-V_{SS}	-	-	7.0	V
SUPPLY VOL. FOR LCD	V_{DD}-V_{EE}	-	-	10.0	V

4.INTERFACE PIN CONNECTIONS:

PIN CONNECTIONS

PIN	Symbol	Level	Function
1	VSS	—	GND(0V)
2	VDD	—	Supply Voltage for Logic(+5V)
3	V0	—	Power supply for LCD
4	RS/CS	H/L	H: Data; L: Instruction Code/Chip select
5	RW/SID	H/L	H: Read; L: Write(Parallel)/Data(Serial)
6	E/SCLK	H/L	Enable Signal(Parallel) / Serial Clock
7	DB0	H/L	Data Bus Line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	PSB	H/L	H:Parallel Mode; L:Serial Mode
16	NC	—	NO Connect
17	/RST	L	Reset Signal (Active LOW)
18	VOUT	—	Voltage Doubler Output(Active Doubler)
19	LEDA	—	Backlight Power (+5V)
20	LEDK	—	Backlight Power (0V)

5.DIMENSIONAL DRAWING :



6. BLOCK DIAGRAM