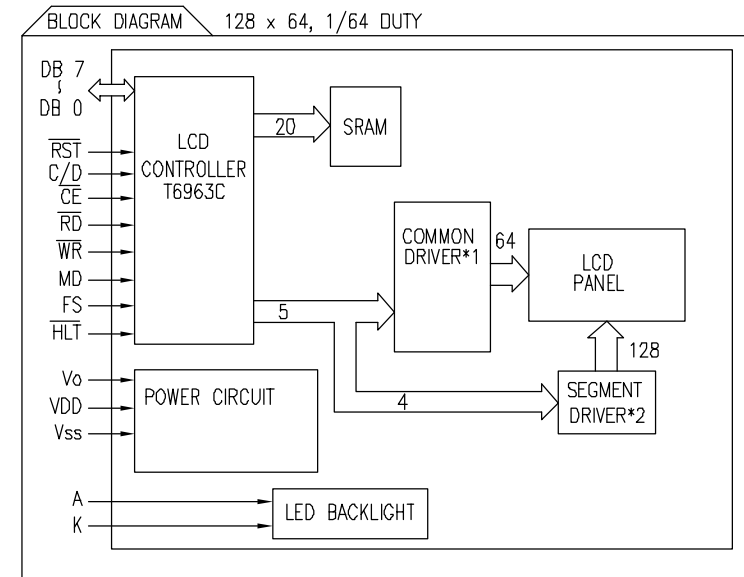
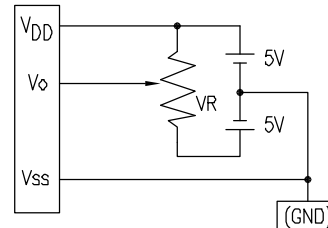


SCALE: N/A

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V _{SS}	-	POWER SUPPLY	GND (0V)
2	V _{DD}	-		5V
3	V _O	-		FOR LCD DRIVE
4	C/ $\bar{D}$	H/L	$\overline{WR}$ ="L", C/ $\bar{D}$ ="H": COMMAND WRITE C/ $\bar{D}$ ="L": DATA WRITE $\overline{RD}$ ="L", C/ $\bar{D}$ ="H": COMMAND READ C/ $\bar{D}$ ="L": DATA READ	
5	$\overline{RD}$	L	DATA READ	
6	$\overline{WR}$	L	DATA WRITE	
7~14	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.	
15	$\overline{CE}$	L	CHIP ENABLE	
16	RESET	L	CONTROL RESET (MODULE RESET)	
17	N/C	-	NO CONNECTION	
18	MD	H/L	H: 32, L: 40 COLUMN SELECT	
19	FS	H/L	FONT SELECT "H": 6 x 8 PIXEL/FONT "L": 8 x 8 PIXEL/FONT	
20	HLT	L	STOP CLOCK OSCILLATION	

V_{DD}-V_O: LCD DRIVING VOLTAGE
VR: 10K Ω - 20K Ω



ELECTRICAL CHARACTERISTICS			V _{DD} =4.7V to 5.3V, T _A =25°C				
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
				MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC		V _{DD} -V _{SS}	-	4.5	5.0	5.5	V
SUPPLY VOLTAGE FOR LCD DRIVE		V _{DD} -V _O	V _{DD} =5V	7.6	8.3	9.2	V
SUPPLY CURRENT FOR LOGIC		I _{DD}	V _{DD} =5V	-	4.5	10	mA
INPUT VOLTAGE	HIGH	V _{IH}	-	2.2	-	4.7	V
	LOW	V _{IL}	-	0	-	0.6	V
OUTPUT VOLTAGE	HIGH	V _{OH}	-	2.4	-	-	V
	LOW	V _{OL}	-	-	-	0.4	V
LED BACKLIGHT	VOLTAGE	V _f	I _f =300mA	-	4.2	4.5	V
	CURRENT	I _f	-	-	300	400	mA
	POWER CONSUMPTION	P _D	-	-	1260	-	mW
	LUMINOUS	L	I _f =300mA	60	90	-	cd/m ²
	COLOR	YELLOW	-	-	585	-	nm

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	-	0	10	V
INPUT VOLTAGE	V _I	T _a =25°C	V _{SS}	V _{DD}	V
OPERATING TEMPERATURE	T _{opr}	-	0	50	°C
STORAGE TEMPERATURE	T _{stg}	-	-20	70	°C

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

REV.

PART NUMBER

LCM-S12864GWF/F-L2

128 x 64 GRAPHIC LCD MODULE,
T6963C CONTROLLER IC, NO DC-DC CONVERTER,
FSTN, TRANFLECTIVE, 1/64 DUTY, YELLOW LED BACKLIGHT.

CONFIDENTIAL INFORMATION

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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BC

PAGE: 2 OF 2

SCALE: N/A