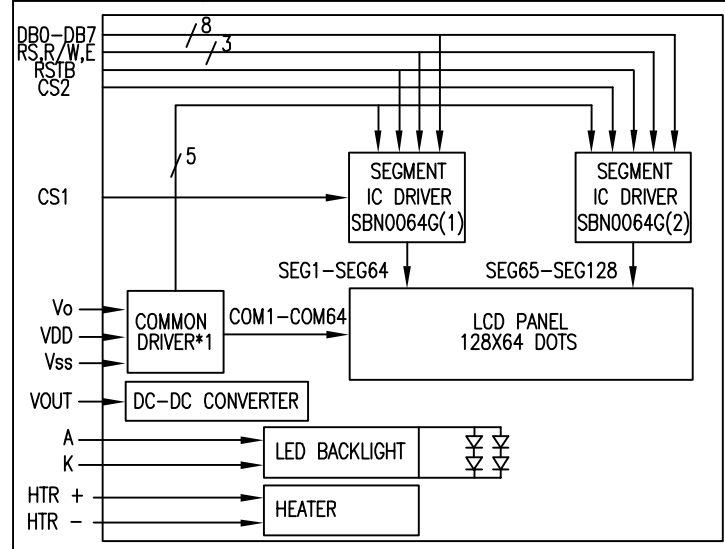


SCALE: N/A

UNCONTROLLED DOCUMENT

BLOCK DIAGRAM 128 x 64, 1/64 DUTY, 1/9 BIAS



PIN CONFIGURATION

PIN NO.	SYMBOL	FUNCTION
1	V _{SS}	POWER SUPPLY
2	V _{DD}	
3	V _O	
4	RS	REGISTER SELECT RS=0...INSTRUCTION REGISTER RS=1...DATA REGISTER
5	R/W	READ/WRITE R/W=0...READ R/W=1...WRITE
6	E	CHIP ENABLE SIGNAL
7-14	DB0~DB7	DISPLAY DATA SIGNAL
15	CS1	CHIP SELECT SIGNAL FOR SBN0064G(1)
16	CS2	CHIP SELECT SIGNAL FOR SBN0064G(2)
17	RSTB	CONTROL RESET (MODULE RESET)
18	VOUT	OUTPUT VOTAGE FOR LCD DRIVING, -10.0V.
19	LED- (A)	ANODE OF LED
20	LED- (K)	CATHODE OF LED
21	HTR +	+12V
22	HTR -	GND (0V)

*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

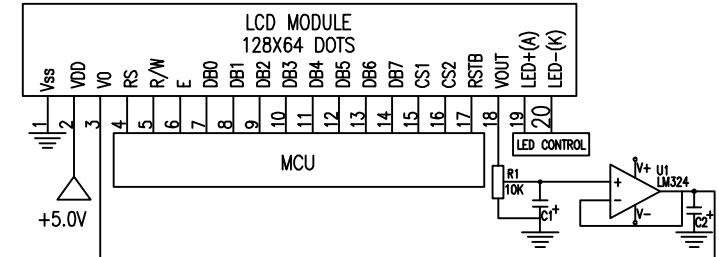
PART NUMBER

LCR-U12864GSF-WH

REV.

NOTES:

1. R1 IS THE CONTRAST RESISTOR.
2. VOUT=-10.0V
3. ADJUST R1 TO GET GOOD CONTRAST. TYP: V_O IS -7.9V.



ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	Ta=25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	-	0	15	V
INPUT VOLTAGE	V _I	Ta=25°C	V _{SS}	V _{DD}	V
OPERATING TEMPERATURE	Topr	W/ HEATER	-40	+85	°C
STORAGE TEMPERATURE	Tstg	W/ HEATER	-40	+85	°C

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	12.6	12.9	13.2	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	-	8.2	13.0	mA
LED BACKLIGHT	VOLTAGE	V _f	-	6.4	7.2	V
	CURRENT	I _f	-	30	-	mA
	POWER CONSUMPTION	P _D	-	192	-	mW
	LUMINOUS	L	-	70	-	cd/m ²
	COLOR	X	.260	-	.330	
	COORDINATE	Y	.260	-	.330	
HEATER	VOLTAGE	V _{fH}	-	12	-	V
	RESISTANCE	-	-	20	-	OHM
	CURRENT	I _H	-	0.6	-	AMP
	POWER	PH	-	7.2	-	W

UNCONTROLLED DOCUMENT

REV.

PART NUMBER

LCR-U12864GSF-WH

128 x 64 GRAPHIC LCD MODULE, STN GRAY,
-40°C to +85°C OPERATING TEMP, W/ HEATER,
TRANSFLECTIVE, WHITE LED BACKLIGHT, 6:00 VIEW.

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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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