

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

NOTES:

1. BLACK FRAME.
2. BLACK BACKGROUND.
3. PIXEL COLOR: YELLOW.
4. MINIMUM VIEWING ANGLE OF 65 DEGREE FROM 12,3,6 & 9 O'CLOCK.
5. WISECHIP SEMI US2066 CONTROLLER.

*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

LUMEX
Creating LED and LCD Solutions Together™

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5.57mm CHARACTER HEIGHT, 5x8 DOT MATRIX, 16x2 OLED MODULE, YELLOW PIXELS, 5.0 v, HIGH TEMP.

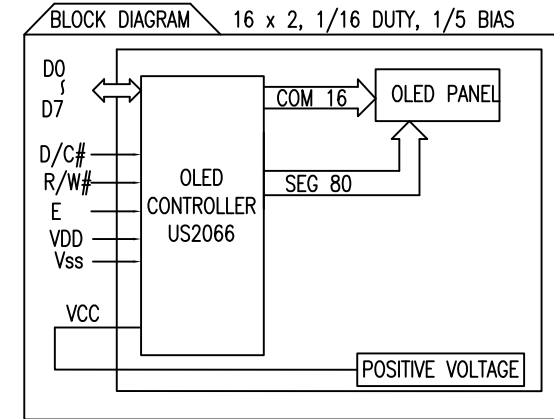
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DATE:	06.09.14	DRAWN BY:	MA
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SCALE:	NTS	APRVD BY:	--
UNIT:	mm [INCH]		Ⓟ

PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	DESCRIPTION
1	V _{SS}	0V	SUPPLY VOLTAGE FOR LOGIC GROUND
2	V _{DD}	5.0V	SUPPLY VOLTAGE FOR LOGIC
3	NC	-	
4	RS	H/L	H:DATA, L: INSTRUCTION CODE
5	R/W	H/L	H:READ (MPU-->MODULE);L:WRITE(MPU-->MODULE)
6	E	H,H->L	CHIP ENABLE SIGNAL
7	DB0	H/L	DATA BIT 0
8	DB1	H/L	DATA BIT 1
9	DB2	H/L	DATA BIT 2
10	DB3	H/L	DATA BIT 3
11	DB4	H/L	DATA BIT 4
12	DB5	H/L	DATA BIT 5
13	DB6	H/L	DATA BIT 6
14	DB7	H/L	DATA BIT 7
15	V _{CC}	12.0V	SUPPLY VOLTAGE FOR PANEL(POSITIVE VOLTAGE OUTPUT)
16	NC	-	



ELECTRICAL/OPTO CHARACTERISTICS

V_{DD}=5V , T_A=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-	4.7		5.3	V
SUPPLY VOLTAGE FOR PANEL	V _{CC} -V _{SS}	-	7.0	12.0	12.5	V
INPUT VOLTAGE	HIGH	V _{IH}	0.8V _{DD}	-	V _{DD}	V
	LOW	V _{IL}	0	-	0.2V _{DD}	V
OUTPUT VOLTAGE	HIGH	V _{OH}	0.9V _{DD}	-	V _{DD}	V
	LOW	V _{OL}	0	-	0.1V _{DD}	V
OLED DRIVING CURRENT	I _{DD}	-	-	*50	-	mA
VIEW ANGLE				FREE		
DARK ROOM CONTRAST				>10000:1		
C.I.E. (C.I.E. 1931)	X		0.46	0.5	0.54	
	Y		0.45	0.49	0.53	
RESPONSE TIME					30	ns
BRIGHTNESS W/POLARIZER			60	100		cd/m ²

*BRIGHTNESS=100cd/m² , T_a=25°C, 60% RH, V_{DD}=5.0V, V_{CC}=12.0V, 100% DISPLAY AREA TURN ON.

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	2.4	5.5	V
SUPPLY VOLTAGE FOR PANEL	V _{CC} -V _{SS}	T _a =25°C	7	13	V
HUMIDITY			-	85	%
OPERATING TEMPERATURE*	T _{opr}	-	-40	80	°C
STORAGE TEMPERATURE	T _{stg}	-	-40	90	°C

OPERATING LIFE 50,000 HRS
END OF LIFE IS SPECIFIED AS 50 %OF INITIAL BRIGHTNESS

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