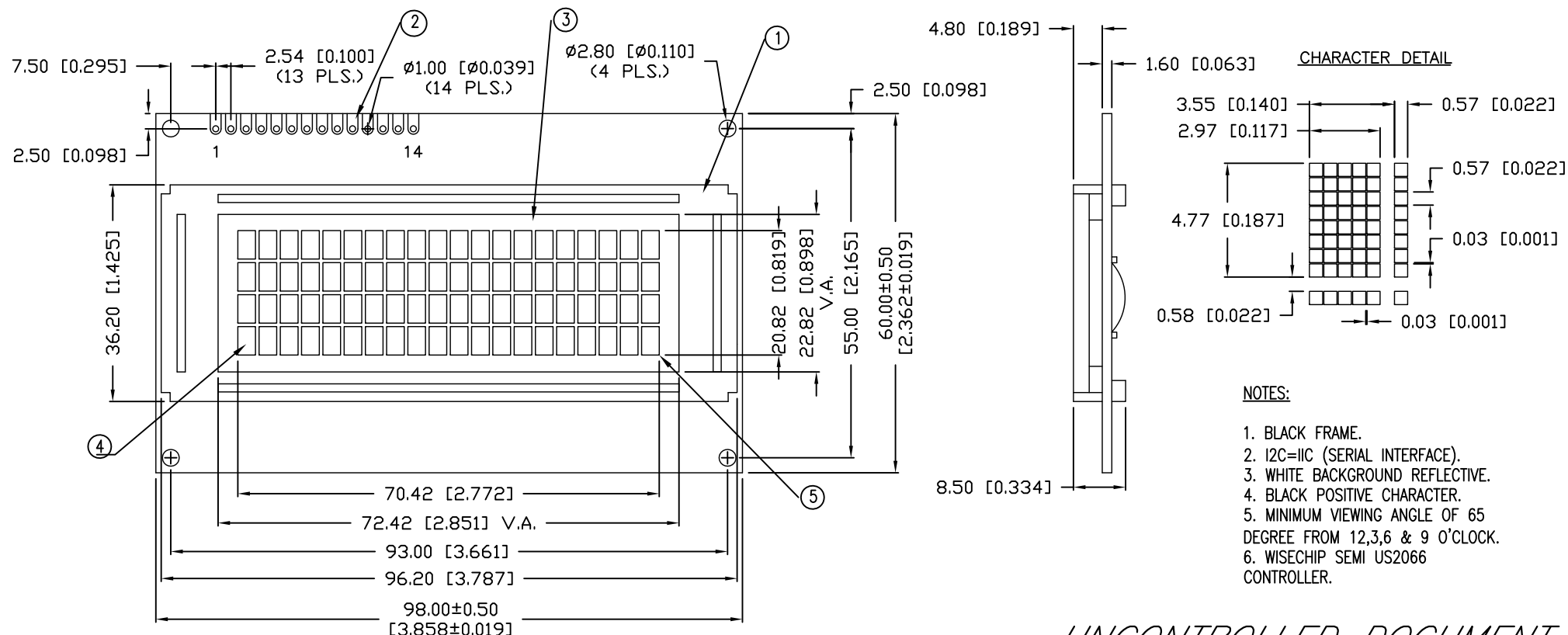


CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



*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
LOD-H02004DP-W

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4.77mm CHARACTER HEIGHT, 5x8 DOT MATRIX, OLED 20x4 LCD
MODULE, WHITE, 1/16 DUTY, 1/5 BIAS, I2C, 3.3V, HIGH TEMP.

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.

DRAWN BY:

MA

CHECKED BY:

DT

APPROVED BY:

DT

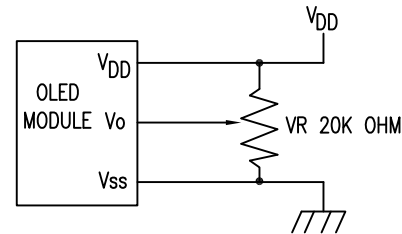
DATE: 06.18.13

PAGE: 1 OF 2

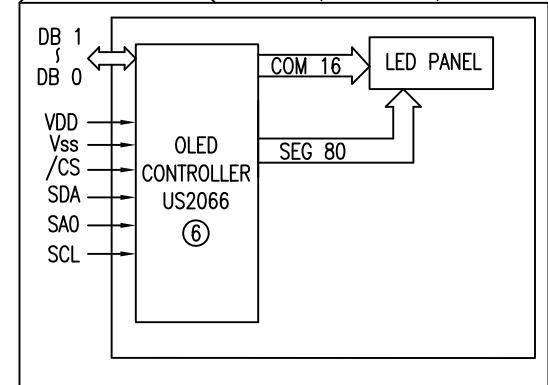
SCALE: N/A

PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	—	POWER SUPPLY
2	V _{DD}	—	
3	/CS	L	
4	SAO	—	SLAVE ADDRESS
5	NC	—	NO CONNECT
6	NC	—	NO CONNECT
7	SCL	H/L	IIC BUS SERIAL CLOCK INPUT
8	SDA	H/L	IIC BUS SERIAL DATA INPUT
9-14	NC	—	NO CONNECT



BLOCK DIAGRAM 20 x 4, 1/16 DUTY, 1/5 BIAS



ELECTRICAL CHARACTERISTICS

V_{DD}=3.3V, T_A=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	—	2.4	3.3	3.6	V
SUPPLY VOLTAGE FOR OLED	V _{CC} -V _{SS}	—	11.5	12.0	12.5	V
INPUT VOLTAGE	HIGH	V _{IH}	H level	0.8V _{DD}	—	V _{DD}
	LOW	V _{IL}	L level	0	—	0.2V _{DD}
OUTPUT VOLTAGE	HIGH	V _{OH}	H level	0.9V _{DD}	—	V _{DD}
	LOW	V _{OL}	L level	0	—	0.1V _{DD}
OLED MODULE VOLTAGE(RECOMMENDED)	V _O -V _{SS}	T _a =25°C	9	10	11.5	V _O
OLED DRIVING CURRENT	I _{DD}	V _{DD} =3.3V V _O -V _{SS} =10V	—	70	90	mA

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	-0.3	5.5	V
SUPPLY VOLTAGE FOR OLED	V _{DD} -V _{CC}	T _a =25°C	-0.3	13	V
INPUT VOLTAGE	V _I	T _a =25°C	-0.3	V _{DD}	V
OPERATING TEMPERATURE*	T _{opr}	—	-40	70	°C
STORAGE TEMPERATURE	T _{stg}	—	-40	85	°C

*BACKGROUND COLOR CHANGES SLIGHTLY DEPENDING ON AMBIENT TEMPERATURE. THE CHANGE IS REVERSIBLE.

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