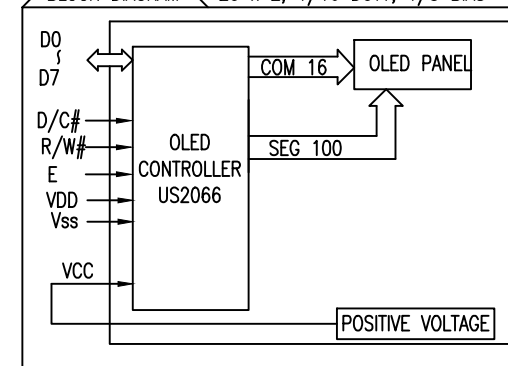


L13

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	—	—

BLOCK DIAGRAM 20 x 2, 1/16 DUTY, 1/5 BIAS

ELECTRICAL/OPTO
CHARACTERISTICSV_{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}	—	11.5	12.0	12.5	V
INPUT VOLTAGE	HIGH LOW	V _{IH}	0.8V _{DD}	—	V _{DD}	V
		V _{IL}	0	—	0.2V _{DD}	V
OUTPUT VOLTAGE	HIGH LOW	V _{OH}	0.9V _{DD}	—	V _{DD}	V
		V _{OL}	0	—	0.1V _{DD}	V
OLED DRIVING CURRENT	I _{DD}	—	—	83	—	mA
VIEW ANGLE				FREE		
DARK ROOM CONTRAST	—	—	—	>10000:1	—	—
C.I.E. (C.I.E. 1931)	X	—	0.12	0.16	0.20	—
	Y	—	0.22	0.26	0.30	—
RESPONSE TIME	—	—	—	—	30	ns
BRIGHTNESS W/POLARIZER	—	—	60	80	—	cd/m ²

*BRIGHTNESS=80cd/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 30,000 HRS
END OF LIFE IS SPECIFIED AS 50 %OF INITIAL BRIGHTNESS

C13 C13 C13

*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}/_{-0.00} MAX.= ^{+0.00}/_{-DECIMAL PRECISION}425 N. GARY AVE.
CAROL STREAM, IL 60188-4900
PHONE: +1.800.278.5666
FAX: +1.630.315.2152
WEB: WWW.ITWCS.COM

20 X 2 OLED DISPLAY, BLUE CHARACTERS

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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