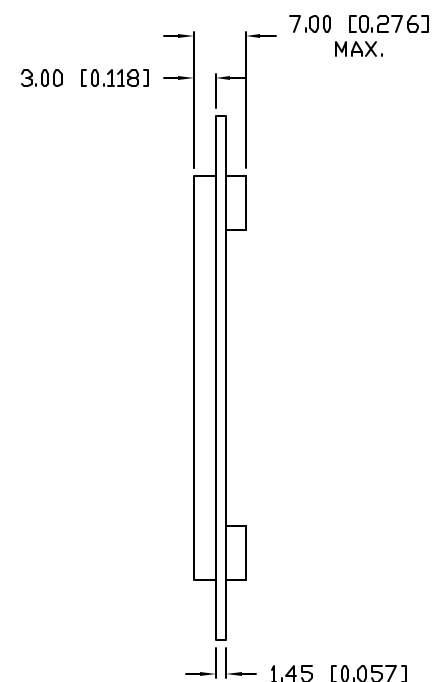
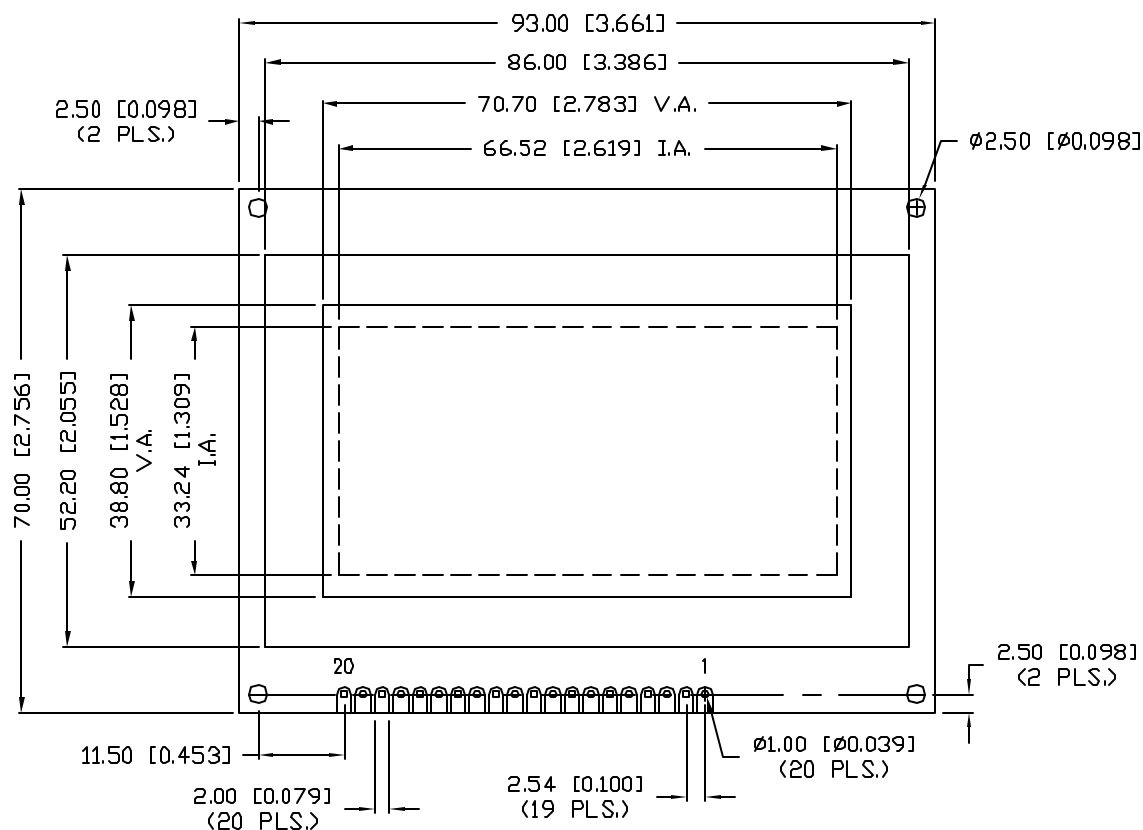


PART NUMBER LOD-S12864G		REV. A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	01.24.07



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-0.00 MAX.=+0.00
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128 x 64 GRAPHIC ORGANIC LED DISPLAY, GREEN, 9V, 1/64 DUTY.		DRAWN BY: JC	CHECKED BY: APPROVED BY: DATE: 3.21.01 PAGE: 1 OF 3 SCALE: N/A

OPTICAL CHARACTERISTICS

ITEM	CONDITION	MIN	TYP.	MAX	UNITS
PIXEL LUMINANCE	DISPLAY AVERAGE	40	45	50	cd/m ²
PEAK EMISSION FREQUENCY	GREEN	—	524	—	nm
EMISSION FREQUENCY RANGE	1/2 MAX INTENSITY	—	503-55	—	nm
		—	3	—	
PIXEL COLOR COORDINATES	X,Y(CIE 1976)	0.19	0.24	0.29	
		0.63	0.68	0.73	
DARK ROOM CONTRAST	—	—	>1:100	—	
VIEWING ANGLE	—	>160	—	—	DEGREE

NOTE: OPTICAL MEASUREMENT TAKEN AT 1/64 DUTY, 120HZ FRAME RATE

AC ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
DATA LATCH IN SETUP TIME	T _{SD}	40	—	—	ns
DATA LATCH IN HOLD TIME	T _{DH}	40	—	—	ns
CP PULSE CYCLE TIME	T _{WCP}	100	—	—	ns
CP LOW TO LD HIGH	T _{CL}	20	—	—	ns
LD HIGH WIDTH	T _{WLD}	100	—	—	ns
COMMON SCAN PULSE LATCH HOLD TIME	T _{CDH}	100	—	—	ns
LD LOW TO SEGMENT OUTPUTS	T _{LSEG}	DEPENDS ON LOAD			ns
LD LOW TO COMMON OUTPUTS	T _{LQOM}	DEPENDS ON LOAD			ns

DC ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
OPERATING VOLTAGE	V _{DD}	—	7.0	9.0	12.0	V
OPERATING CURRENT	I _{CC}	V _{DD} =9V T _{WCP} =10MHZ NO OUTPUT LOAD	—	—	1.0	mA
STANDBY CURRENT	I _{SB}	DISB=V _L	—	—	1.0	uA
INPUT VOLTAGE	HIGH	V _{IH}	—	2.4	—	V
	LOW	V _{IL}	—	—	0.8	V
OUTPUT VOLTAGE	HIGH	V _{OH}	I _{OH} =-0.6mA	V _{DD} -2	—	V
	LOW	V _{OL}	I _{OL} =+0.6mA	—	0.4	V
SEGMENT SHORT CURRENT	I _{OS}	V _{SEGOH} < V _{OH}	-2.0	—	-20.0	uA
SEGMENT ON OUTPUT CURRENT	I _{SEGOH}	V _{SEGOH} = V _{OH}	-20.0	—	-200	uA
ROW ON OUTPUT CURRENT	I _{ROWOL}	V _{ROWOL} = V _{OL}	—	—	20.0	mA
INPUT LEAKAGE CURRENT	I _{LI}	V _{SS} < V _{IN} < V _{DD}	—	—	2.0	uA
INPUT TERMINAL CAPACITY	C _I	FREQ=1MHZ	—	—	2.0	uA
		T _A =25°C	—	—	8.0	pF

PULSED ELECTRICAL SPECIFICATIONS

ITEM	MIN	TYP.	MAX	UNITS	COMMENTS
FORWARD CURRENT	—	0.1	0.2	mA	
FORWARD VOLTAGE	—	9	12	V	INITIAL
EMISSIVE POWER	—	T.B.D	—	mW	AVG. 25% PIXELS ON
MAXIMUM ROW CURRENT	—	T.B.D	—	mA	PEAK, 100% PIXELS ON

NOTE: PULSED MEASUREMENTS TAKEN AT 1/64 DUTY CYCLE, 120HZ FRAME RATE

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE	V _{DD}	T _a =25°C	-0.3	12	V
I/O PIN VOLTAGE	—	T _a =25°C	-0.3	V _{DD} +0.3	V
OPERATING TEMPERATURE	T _{opr}	120 hrs	0	50	°C
STORAGE TEMPERATURE	T _{stg}	240 hrs	-20	60	°C
STORAGE CONDITIONS*		240 hrs	—	65	°C
			—	95%	RH
OPERATING HALF LIFE**	—	—	6,000	—	HRS

*IDEAL STORAGE CONDITIONS ARE 20~30°C AND 0~60% RH.

**OPERATING HALF LIFE IS THE POINT IN TIME WHEN DISPLAY BRIGHTNESS DROPS TO ONE HALF ITS INITIAL VALUE (50% OR 3dB DROP).

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REV.
APART NUMBER
LOD-S12864G128 x 64 GRAPHIC ORGANIC LED DISPLAY,
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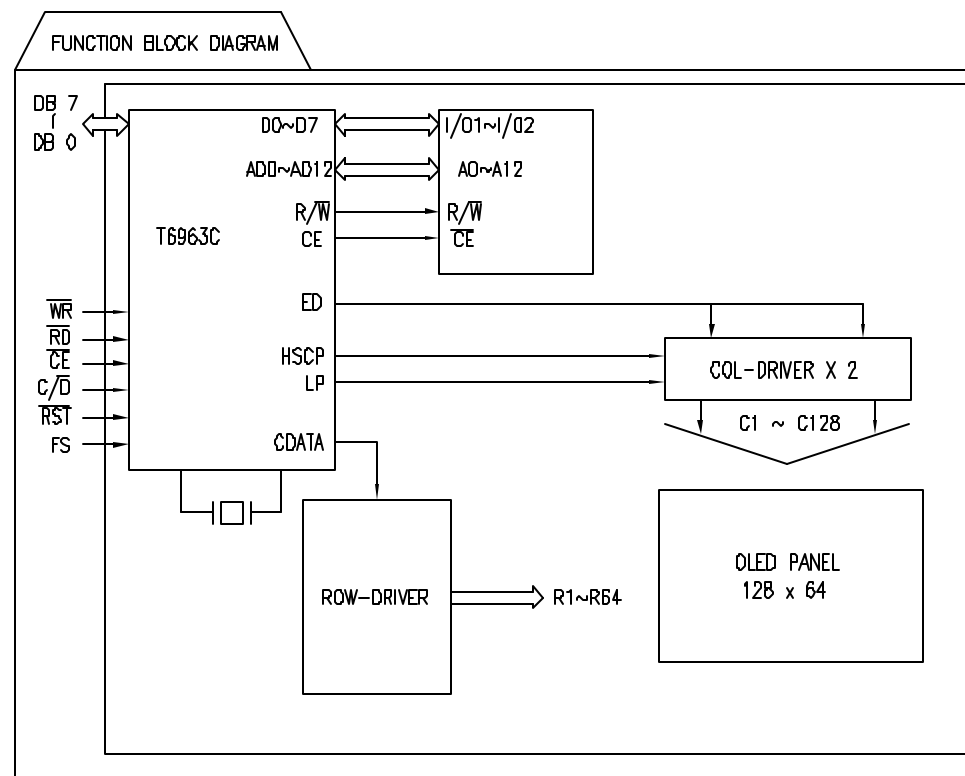
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PIN CONFIGURATION			
PIN NAME	PIN NO.	TYPE	FUNCTION
GND	1	I	POWER SUPPLY (0V)
VCC	2	I	POWER SUPPLY (5V)
VP	3	I	POWER SUPPLY (12V)
NC	4		NO CONNECTION
WR	5	I	DATA READ
RD	6	I	DATA WRITE
CE	7	I	CHIP ENABLE FOR T6963C
C/D	8	I	WR=L C/D=H: COMMAND WRITE C/D=L: H DATA WRITE RD=L C/D=H: STATUS READ C/D=L: H DATA READ
NC	9		NO CONNECTION
RST	10	I/O	H: NORMAL MODE. L: INITIALIZE T6963C
DB0~DB07	11~18	I/O	DATA I/O PIN BETWEEN CPU AND T6963C
FS	19	I/O	SELECTION: FS=H: 8x8 FS=L: 6x8
NC	20	-	NO CONNECTION



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