

UNCONTROLLED DOCUMENT

/ PIN CONFIGURATION

<u> </u>			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	RES	L	Reset input pin
2	ĆS	Н	CHIP SELECT
3	RS	H/L	(L) CONTROL, (H) DISPLAY
4	WR	L	WRITE SIGNAL INPUT LEAD
5~12	D80~D87	H/L	BIDIRECTIONAL PARALLEL DATA BUS
13	VDD	-	POWER SUPPLY FOR LOGIC AND BOOSTER
14	VSS	-	GROUND
15	VLED1-	-	CATHODE LEAD FOR LED 1
16	VLED2-	-	CATHODE LEAD FOR LED 2
17	VLED+	-	ANODE LEAD FOR WHITE LED
18	VLCD	_	LCD VOLTAGE OUTPUT

/ Electrical characteristics `

ПЕМ		SYMBOL	CONDITION	STAN	UNIT			
		SIMBUL	NOUTON	MIN.	TYP.	MAX.		
SUPPLY VO	LTAGE FOR	LOGIC	Voo	I	2.4	3.0	3.3	٧
SUPPLY CL	irrent for	logic	100	VDD = 3.0V	-	3.0	3.3	mA
	INPUT VOLTAGE LOW		VIH	I	0.8*Vd0	1	Voo	۷
INPUT VOLT			VIL	-	0	-	0.2*Vdd	٧
	VOLTAGE CURRENT COLOR BRIGHTNESS		VLED	I	-	3.2	3.7	۷
			ILED1	I	-	20	22	mA
LED			ILED/2	I	-	20	22	mA
BACKLIGHT			-	I	-	WHITE	-	-
			-	-	-	40	-	cd/m²

/ Absolute Maximum Ratings \

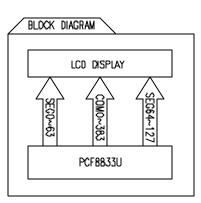
ПЕМ	SYMBOL	TEST	STANDAR	UNIT		
	STWEVE	CONDITION	MIN	MAX		
SUPPLY VOLTAGE FOR LOGIC	VDD - Vss	Ta=25°C	-0.3	4.0	٧	
SUPPLY VOLTAGE FOR LCD DRIVE	Vlcd -Vss	Ta=25°C	-0.3	18.0	٧	
INPUT VOLTAGE	Vt	Ta=25°C	-0.4	Vpp +0.5	۷	
CURRENT OF LED 1	ILED1	Ta=25°C	0	25	mA	
CURRENT OF LED 2	lled2	Ta=25°C	0	25	mA	
OPERATING TEMPERATURE	Topr	-	-20	70	Ĵ,	
STORAGE TEMPERATURE	Tstg	-	-30	80	ċ	

 PART NUMBER
 REV.

 LCM—H128128GCFN—15
 A

 REV.
 E.C.N. NUMBER AND REVISION COMMENTS
 DATE

 A
 SEE PAGE #1



A LCM-H128128GCFN-15

1.5" 128 x 128 CSTN MODULE, TRANSFLECTIVE (NEGATIVE), WHITE LED BACKLIGHT, GLARE UPPER POLARIZER, 1/132 DUTY, 6 O'CLOCK VIEW, WEIGHT: 7.6g.

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<u>Ellability note</u> our nany 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.

LUM		DNE: +1.84 WEB: www.	60067-6976 7.359.2790	
DRAWN BY: JC	CHECKED BY:	APPROVED	BY: DATE: 1.26.04 PAGE: 2 OF 3 SCALE: N/A	

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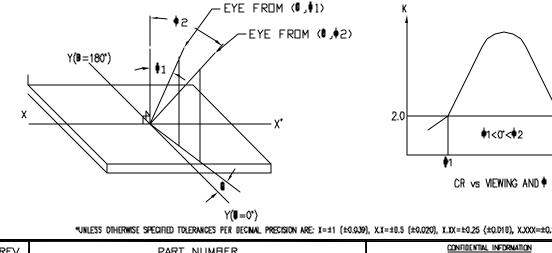
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OPTICAL CHARACTERISTICS To=25°C (BACKLIGHT ON)									
ITEM		SYMBOL	CONDITION -		STANDARD VALUE			UNIT	
					MIN.	TYP.	MAX.	VNII	
VIEWING ANGLE RANGE		∳ 1, ∳ 2	B =0.	X-AXIS	-35	1	35	DEG.	
(TRANSMISSIVE MODE)	(TRANSMISSIVE MODE)		K≥3	Y-AXIS	-35	-	35	DEG.	
CONTRAST RATIO		CR	ė –0°	≜ _0"	5.0	7.0	-		
		UN	0 =0', ♦ =0'		12.0	15.0	-	_	
COLOR GAMUT		CG	0 =0 , •=0		9.0	-	-	%	
REFLECTION	REFLECTION			0 =0 ', ♦ =0'		-	-	%	
	R	Х			0.37	0.42	0.47	-	
CHROMATICITY COORDINATES	R	Y			0.23	0.28	0.33	-	
	Ģ –	Х			0.26	0.31	0.36	-	
		Y		0.34	0.39	0.44	-		
	B	Х	0 =0°,	~ _0	0.15	0.20	0.25	-	
		Y	¢-0,	w	0.15	0.20	0.25	-	
	w	Х			0.26	0.31	0.36	-	
		W Y			0.26	0.31	0.36	-	
RESPONSE TIME NOTE 1,2		Tr+Tf			-	30D	350	ms	

PART NUMBER REV. LCM-H128128GCFN-15 А REV. E.C.N. NUMBER AND REVISION COMMENTS DATE SEE PAGE #1 А

NOTES:

- 1. THE TIME THAT THE LUMINANCE LEVEL REACHES 90% OF FULL BRIGHTNESS LEVEL FROM 0% WHEN "ON" SIGNAL IS APPLIED. 2. THE TIME THAT THE LUMINANCE LEVEL REACHES 10% OF FULL
- BRIGHTNESS LEVEL FROM 1007 WHEN "OFF" SIGNAL IS APPLIED.





ss otherwise specified tolerances per decinal precision are: x=±1 (±0.039),			+ DECINAL PRECISION 144V _ +0.00
JJ VINERWIJE JREGINED IVLERANGEJ FER DEGINAL FREGIJIVN ARE, A-II (IV.VG7),	VY=I0'0 (TAMATA)' V'VA'IO'CO (TAMAIN' V'VA'I') (TAMAO''	LEAD JIZE-IV.03 (IV.092), LEAD LENGIH-IV.73 (IV.030), MIN-	

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1.5"	128 × 128 CSTN MODULE, TRANSFLECTIVE (NEGATIVE), WHITE LED BACKLIGHT, GLARE UPPER POLARIZER, 1/132 DUTY, 6 O'CLOCK VIEW, WEIGHT: 7.6g.	Reliability note our namy 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:		APPROVED BY:		

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