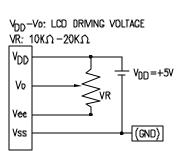


UNCONTROLLED DOCUMENT

PIN CONFIGURATION									
PIN NO.	SYMBOL	LEVEL	FUNCTION						
1	V _{DD}	-		5V					
2	Vss	-	POWER SUPPLY	GND (OV)					
3	Vo	-		FOR LCD DRIVE					
4-11	DB0~DB7	H/L	DATA BUS						
12	CS1	H/L	Chip Selection Signal For IC1						
13	CS2	H/L	Chip Selection Skinal for IC2						
14	RST	-	RESET SIGNAL (ACTIVE	E "LOW")					
15	R/W	H/L	DATA READ/WRITE	H:READ L:WRITE					
16	D/I	H/L	REGISTER SELECT SIG	NAL H:DATA L:INSTRUCTION					
17	E	H->L	ENABLE						
18	Vee	-	OUTPUT VOLTAGE FOR LCD DRIVING						
19	Α	-	ANQDE	LED BACKLIGHT					
2D	К	_	CATHODE	LED BACKLIGHT					



PART NUMBER						
LCM-H12864GSF/H-Y						
REV.	E,C,N. NUMBER AND R	EVISION (OMMEN	NTS	D/	ATE
В	SEE PAGE 1.					
	READ/WRITE TIN	IING FOR MF		FACE	$\overline{}$	
	PARAMETER	SYMBOL	MIN	MAX	UNIT	<u>ן</u>
	ADDRESS HOLD TIME	tah	10	-	ПS	
	ADDRESS SETUP TIME	tas	140	_	ПS	
	E CYCLE TIME	tcyc	1000	_	ns	

PARAMETER	SYMBOL	MIN	MAX	UNIT
address hold time	tah	10	-	ns
ADDRESS SETUP TIME	tas	140	-	ns
E CYCLE TIME	tCYC	1000	-	ns
e high level width	tweh	450	-	ns
e low level width	twel	450	-	ns
data setup time	tdsw	200	-	П5
data hold time (read)	tdhr	20	-	ns
data delay time	todr	-	320	ns
data hold time (write)	tdhw	10	-	ns
e rise time	tR	-	25	ns
e fall time	tF	-	25	ns

ELECTRICAL CHARACTERISTICS V_{DD} =4.75V to 5.25V, T _A =25°C								
ITEM			SYMBOL	CONDITION	STAN	UNIT		
				GUNDHION	MIN.	TYP.	MAX.	וואום
SUPPLY VO	LTAGE FOR	LOCIC	V _{BD} -Vae	_	4.75	5.D	5.25	٧
SUPPLY CL	irrent for	logic	IDD	V _{DB} =5V	-	8.D	-	mA
	VOLTAGE LOW		VIH	-	0.7*V _{DD}	-	۷ _{DD}	۷
INPUT VOLT			۷ _{IL}	-	0	-	0.3*V _{DD}	۷
*EDGE LIT	VOLTAGE		Vf	lf=60mA	-	4.2	4.5	۷
	CURRENT		lf	-	-	60	-	mA
BACKLIGHT	POWER CUNSUMPTION	PD	-	-	252	-	mW	
	LUMINOUS		L	lf=60mA	-	2	-	cd/m²
	COLOR		-	-	-	_	-	nm

/absolute maximum ratings \

ПЕМ	SYMBOL	TEST	STANDARD VALUE		UNIT	
	JINDUL	CONDITION	MIN	MAX		
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	-	7.0	۷	
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-No	-	10.8 0 40°C	12.4 0 0°C	۷	
INPUT VOLTAGE	V	Ta=25°C	Vss	V _{DD}	۷	
OPERATING TEMPERATURE	Торг	-	-20	7D	. С	
STORAGE TEMPERATURE	Tstg	-	-30	85	Ċ	

***ONLY APPLIES TO MODULES WITH BACKLIGHT**

UNCONTROLLED DOCUMENT *UNLESS OTHERWISE SPECIFED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X,X=±0.5 (±0.020), X,XX=±0.25 (±0.010), X,XX=±0.127 (±0.005). LEAD \$7ZE=±0.05 (±0.020), LEAD \$7ZE=±0.05 (±0.030). NN=+DECIMAL PRECISION MAX.= +DECIMAL PRECISION MAX.= +

REV.	PART NUMBER	<u>confidential information</u> The information contained in this document is the property of			290 E. HELEN ROAD PALATINE, IL 60067—6976		
В	LCM-H12864GSF/H-Y	LUMEX NG. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUNEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DESCRIPTE AND DISSEMINATION TO ALL THRO PARTIES,	We toste Presse To Wa	PHC US)NE; +1.847.359 WEB: www.lume>),2790 k.com	
1:	28 x 64 DOT MATRIX GRAPHIC MODULE, 1/64 DUTY, 1/6 BIAS, WITH NEGATIVE CHARGE PUMP, EXTENDED TEMP., STN, YELLOW BACKGROUND.	IN PART FROM DISCUSSING AND DISSEMIVATION TO ALL THREE PARTIES. <u>Reliability note</u> Dur 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.	DRAWN BY:		APPROVED BY:	DATE:	2.4.99 2 OF 2 N/A

Mouser Electronics

Authorized Distributor

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