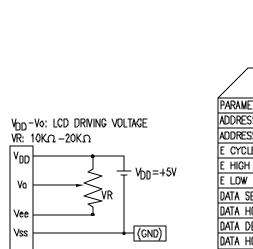


UNCONTROLLED DOCUMENT

PIN	CONFIGUR					
PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	Vss	-		GND (OV)		
2	V _{DD}	-	POWER SUPPLY	5V		
3	Va	-		FOR LCD DRIVE		
			REGISTER SELECT SIGNAL			
4	D/I	H∕L	H: DATA INPUT			
			L' INSTRUCTION INPUT			
5	R∕W	H/L	H: DATA READ (MODULE>MPU)			
U			L; DATA WRITE (MODULE<——MPU)			
6	E	H,H->L	ENABLE			
7∾14	DB0~DB7	H/L	DATA BUS			
15	CS1	H/L	Chip selection signal for IC1			
16	CS2	H/L	Chip selection signal for IC2			
17	rst	_	RESET SIGNAL (ACTIVE "LOW")			
18	Vee	-	QUTPUT VOLTAGE FOR LCD DRIVING			
19	Α	-	ANODE	LED BACKLIGHT		
20	К	-	CATHODE	LED BACKLIGHT		



REV.

READ/WRITE TIMING FOR MPU INTERFACE							
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	-	ns			
DATA HOLD TIME (READ)	tdhr	20	-	ns			
data delay time	tddr	-	320	ns			
DATA HOLD TIME (WRITE)	t dhw	10	-	ns			
e rise time	ਸ	-	25	ns			
e fall time	÷	-	25	ns			

PART NUMBER

LCM-X12864GXX/C

E.C.N. NUMBER AND REVISION COMMENTS

/ ELECTRICAL CHARACTERISTICS				a,=25°C standard value			UNIT	
ITEM			SYMBOL	CONDITION	MIN, TYP, MAX,			
SUPPLY VOLTAGE FOR LOGIC			V _{DD} -Vss	_	4.75	5.0	5.25	٧
SUPPLY CURRENT FOR LOGIC		DD	V _{DD} =5V	-	8.0	-	mA	
INPUT VOLTAGE LOW		VIH	-	0.7*Vpp	-	VDD	٧	
		۷IL	-	0	-	0.3*VDD	٧	
*led Backlight	Voltage		Vf	lf=300mA	-	4.2	4.5	٧
	CURRENT		lf	-	-	300	-	mA
	POWER CUNSUMPTION		PD	-	-	1260	-	mW
	LUMINOUS		L	lf=300mA	60	90	-	cd/m²
	COLOR		-	_	-	-	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST	STANDAR	d value	UNIT	
	STWEGL	CONDITION	MIN	MAX		
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	-	7.0	٧	
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-VD	-	10.8 0 40°C	12.4 00° C	٧	
INPUT VOLTAGE	٧	Ta=25°C	Vss	V _{DD}	٧	
OPFRATING TEMPERATURE	T	LCM-S	0	50	.с	
GFERATING TEMFERATURE	Торг	LCM-H	-20	70	ċ	
STORAGE TEMPERATURE	T-4-	LCM-S	-20	70	.c	
STURAGE ILMIFERATURE	Tstg	LCM-H	-30	85	ċ	

UNCONTROLLED DOCUMENT

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DATE

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