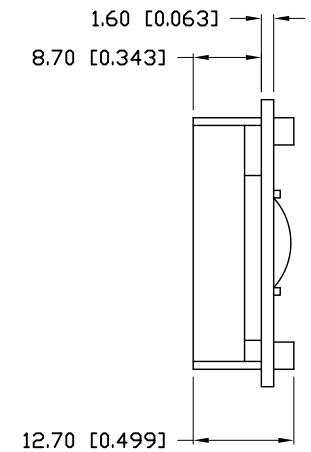


CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



LUMEX
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CONFIDENTIAL INFORMATION

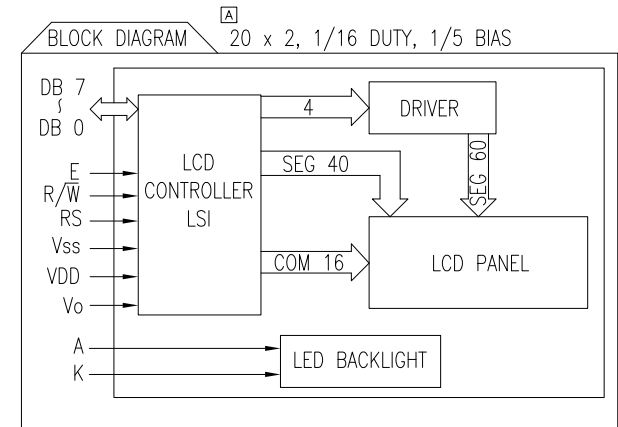
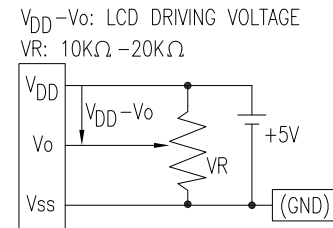
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DATE: 02.14.13	DRAWN BY: MA
PAGE: 1 OF 2	CHKD BY: KF
SCALE: NTS	APRVD BY: KF
UNIT: mm [INCH]	(Pb)

PART NUMBER	LCM-S02002DSM-Y	REV.	D
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
08.03.98	E.C.N. #10447.		A
09.04.98	E.C.N. #10BRDR. & REDRAWN.		B
02.14.13	E.C.N. #10BRDR. & REDRAWN.		C
11.26.13	E.C.N. #11888.		D

A

PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	—	POWER SUPPLY GND (0V) 5V FOR LCD DRIVE
2	V _{DD}	—	
3	V _O	—	
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT
5	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)
6	E	H,H->L	ENABLE
7~14	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.
15	A	—	ANODE LED BACKLIGHT
16	K	—	CATHODE LED BACKLIGHT



ELECTRICAL CHARACTERISTICS		V _{DD} =4.7V to 5.3V, T _A =25°C					
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	—	MIN.	TYP.	MAX.	V	
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	—	2.0	3.0	mA	
INPUT VOLTAGE	HIGH LOW	V _{IH}	—	2.2	—	V _{DD}	V
		V _{IL}	—	0	—	0.6	V
OUTPUT VOLTAGE	HIGH LOW	V _{OH}	—	2.4	—	—	V
		V _{OL}	—	—	—	0.4	V
*LED BACKLIGHT	VOLTAGE	V _f	I _f =210mA	—	4.2	4.6	V
	CURRENT	I _f	—	—	210	—	mA
	POWER CONSUMPTION	PD	—	—	882	—	mW
	LUMINOUS	L	I _f =210mA	110	170	—	cd/m ²
	COLOR	—	—	—	570	—	nm

ABSOLUTE MAXIMUM RATINGS		A				
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	4.7	5.3	V	
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	—	4.2@50°C	4.8@0°C	V	
INPUT VOLTAGE	V _I	T _a =25°C	V _{SS}	V _{DD}	V	
OPERATING TEMPERATURE	T _{opr}	—	0	50	°C	
STORAGE TEMPERATURE	T _{stg}	—	-20	70	°C	

*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= ^{+0.00}/_{-0.00} DECIMAL PRECISION MAX.= ^{+0.00}/_{-0.00} DECIMAL PRECISION

UNCONTROLLED DOCUMENT