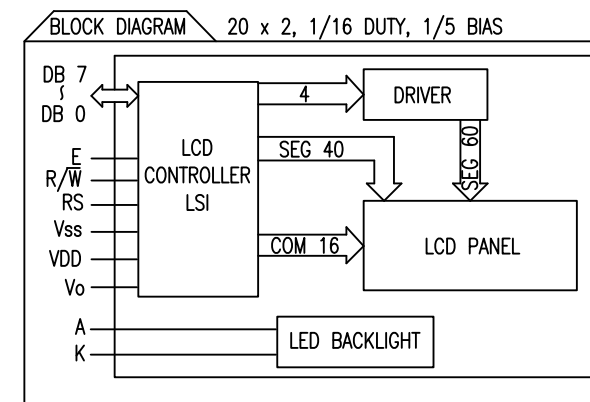
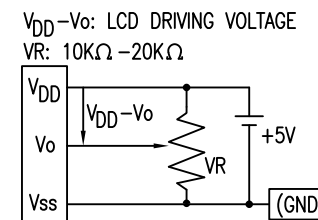


PART NUMBER	LCM-H02002DWN-W	REV.	B
DATE	E.C.N. NUMBER AND REVISION COMMENTS	REV.	
4.19.07	E.C.N #11148	A	
4.26.17	ECN-Lumex201700011	B	

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V _{SS}	—	POWER SUPPLY	GND (0V)
2	V _{DD}	—		5V
3	V _O	—		FOR LCD DRIVE
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	3.4V	ANODE	LED BACKLIGHT
16	K	GND	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	V _{IH}	—	2.2	—	V _{DD} V
	LOW	V _{IL}	—	0	—	0.6 V
OUTPUT VOLTAGE	HIGH	V _{OH}	—	2.4	—	V
	LOW	V _{OL}	—	—	0.4	V
LED BACKLIGHT	VOLTAGE	V _f	I _f =40mA	—	3.4	3.6 V
	CURRENT	I _f	—	—	40	50 mA
	POWER CONSUMPTION	PD	—	—	136	180 mW
	LUMINOUS	L	I _f =40mA	60	100	— cd/m ²
	COLOR	—	—	—	WHITE	—

ABSOLUTE MAXIMUM RATINGS					
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}	—	-20	70	°C
STORAGE TEMPERATURE	T _{stg}	—	-30	80	°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=±0.1(±0.004), LEAD LENGTH=±0.75 (±0.003). MIN.= +DECIMAL PRECISION MAX.= -DECIMAL PRECISION



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20 x 2 CHARACTER MODULE, 5 x 8 DOT MATRIX,STN TRANSFLECTIVE, WHITE LED BACKLIGHT, OPERATING TEMPERATURE, 6:00 VIEW.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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DATE:	04.26.17	DRAWN BY:	K.Y.
PAGE:	2 OF 2	CHKD BY:	RAY
SCALE:	—	APRVD BY:	Y.G.
UNIT:	mm [INCH]		Ⓟ