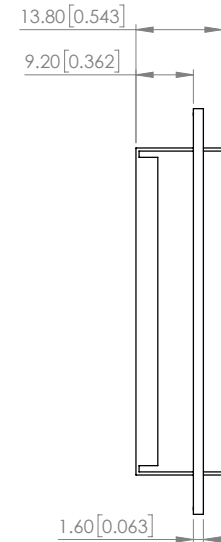
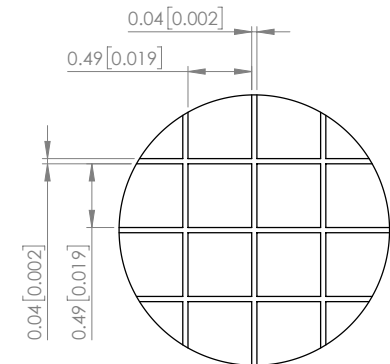


PART NUMBER		LCM-H24064GSF/B	REV	B
REV	E.C.N. NUMBER AND REVISION COMMENTS			DATE
A	E.C.N. #11148			04.20.07
B	ECN-Lumex201800060			04.26.18



PIN NO	SIGNAL
1	FGND
2	VSS
3	VDD
4	VO
5	/WR
6	/RD
7	/CE
8	C/D
9	NC
10	/RST
11	DB0
12	DB1
13	DB2
14	DB3
15	DB4
16	DB5
17	DB6
18	DB7
19	FS
20	NC



NOTE:
1. RoHS COMPLIANT.

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180.0(W)×65.0(H)×13.8(D)mm, 240x64 DOT MATRIX GRAPHIC LCD MODULE, STN GRAY, TRANSELECTIVE, 1/64 DUTY, LED BACKLIGHT.

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DATE : 2018.04.25	DRAWN BY : C.C.
PAGE : 1 OF 4	CHKD BY : E.C.
SCALE : NTF	APRVD BY : G.Y.
UNIT : mm [INCH]	Ⓢ

GENERAL SPECIFICATION

ITEM	DESCRIPTION
LCD TYPE	STN
REAR POLARIZER	POSITIVE / TRANSFLECTIVE
BACKLIGHT TYPE	LED
BACKLIGHT COLOR	YELLOW GREEN
TEMPERATURE RANGE	WIDE TEMP., 5V
VIEWING DIRECTION	6 O'CLOCK
VIEWING AREA	134.0 (W)mm x 40.4 (H)mm
MODULE SIZE	180 (W)mm x 65.0 (H)mm x 13.8 MAX(D)mm
PIXELS SIZE	0.49 x 0.49
PIXELS PITCH	0.53 x 0.53
DISPLAY FORMAT	240(W) x 64(H)
DUTY RATIO	1 / 64 DUTY

ABSOLUTE MAXIMUM RATING

(1) Electrical Absolute Ratings

ITEM	SYMBOL	MIN.	MAX.	UNIT
POWER SUPPLY FOR LOGIC	VDD-VSS	0	5.5	VOLT
POWER SUPPLY FOR LCD	VDD-VEE	0	20	VOLT
INPUT VOLTAGE	V1	VSS	VDD	VOLT
LED BACKLIGHT POWER DISSIPATION	PAD	-	4761	W
LED BACKLIGHT FORWARD CURRENT	IAF	-	1035	mA
LED BACKLIGHT REVERSE VOLTAGE	VR	-	8	V

(2) Environmental Absolute Maximum Ratings

ITEM	WIDE TEMPERATURE			
	OPERATING		STORAGE	
	MIN.	MAX.	MIN.	MAX.
AMBIENT TEMPERATURE	-20 °C	+70 °C	-30 °C	+80 °C
HUMIDITY (WITHOUT CONDENSATION)	NOTE 1, 2		NOTE 1, 3	

Note 1: Background color changes slightly depending on ambient temperature.

This phenomenon is reversible.

Note 2: Ta≤70°C: 75RH max

Ta>70°C: absolute humidity must be lower than the humidity of 75%RH at 70°C

Note 3: Ta at -30°C will be <48hrs, at 80 °C will be <120hrs when humidity is higher than 75%.

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ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
POWER SUPPLY FOR LOGIC	V _{DD} -V _{SS}	-	4.5	5.0	5.5	VOLT
POWER SUPPLY CURRENT FOR LCM	I _{DD}	V _{DD} =5.0V	-	16.0	25.0	mA
INPUT VOLTAGE	V _{IL}	L LEVEL	0	-	0.15 V _{DD}	VOLT
	V _{IH}	H LEVEL	0.8 V _{DD}	-	V _{DD}	VOLT
	V _{DD} -V _O	T _a =25 °C	10.8	12.2	13.1	VOLT
BRIGHTNESS OF BACKLIGHT	L	I _f =690 mA	120	180	-	cd/m ²
PEAK EMISSION WAVELENGTH	λ _P	I _f =690 mA	567	570	577	nm
LED FORWARD VOLTAGE	V _F	I _f =690 mA	-	4.1	4.6	VOLT

ELECTRICAL CHARACTERISTICS

PIN NO.	PIN OUT	FUNCTION DESCRIPTION
1	FGND	For GND
2	V _{SS}	Power Supply Ground
3	V _{DD}	Power Supply Voltage
4	V ₀	Contrast Adjustment Voltage
5	/WR	Data Write
6	/RD	Data Read
7	/CE	Enable Signal
8	C/D	WR='L', C/D='H': Command Write WR='L', C/D='L': Data Write RD='L', C/D='H': Status Read RD='L', C/D='L': Data Read
9	NC	No Connection
10	/RST	Reset Signal
11	DB0	Data Bit 0
12	DB1	Data Bit 1
13	DB2	Data Bit 2
14	DB3	Data Bit 3
15	DB4	Data Bit 4
16	DB5	Data Bit 5
17	DB6	Data Bit 6
18	DB7	Data Bit 7
19	FS	H : 6*8/L : 8*8 Select of Font
20	NC	No Connection

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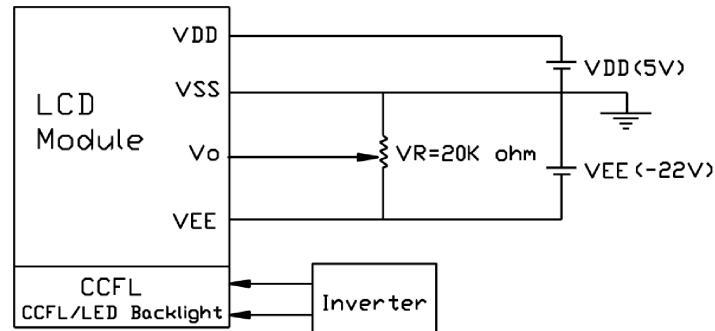
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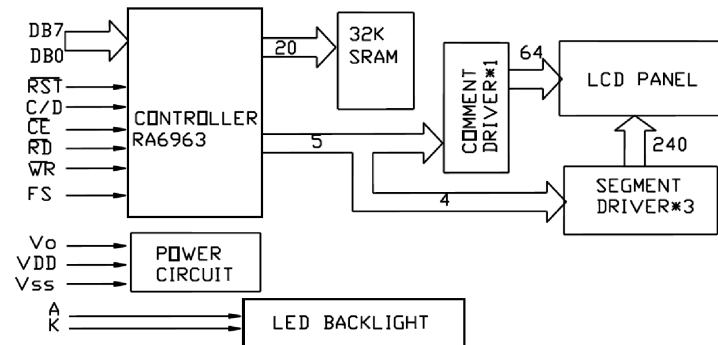
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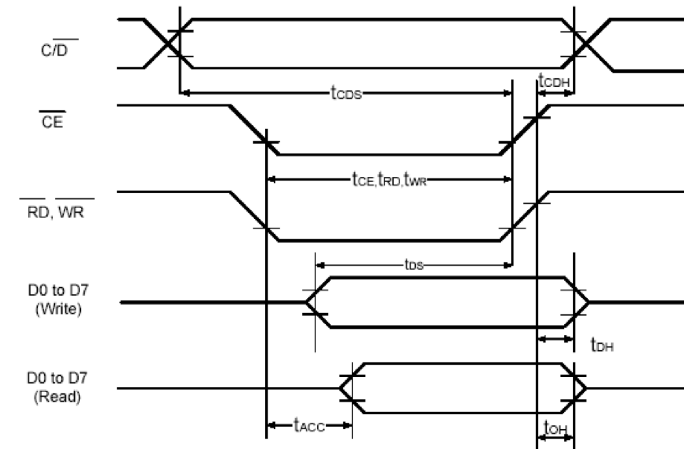
POWER SUPPLY



BLOCK DIAGRAM



TIMING CHARACTERISTIC



ITEM	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
C/D Set Up Time	t_{CDS}	--	100	--	ns
C/D Hold Time	t_{CDH}	--	10	--	ns
/CE, /RD, /WR Pulse Width	t_{CE}, t_{RD}, t_{WR}	--	80	--	ns
Data Set Up Time	t_{DS}	--	80	--	ns
Data Hold Time	t_{DH}	--	40	--	ns
Access Time	t_{ACC}	--	--	150	ns
Output Hold Time	t_{OH}	--	10	50	ns

*VDD=+5V±5%, GND=0V, Ta=-20~70 degree

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