

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

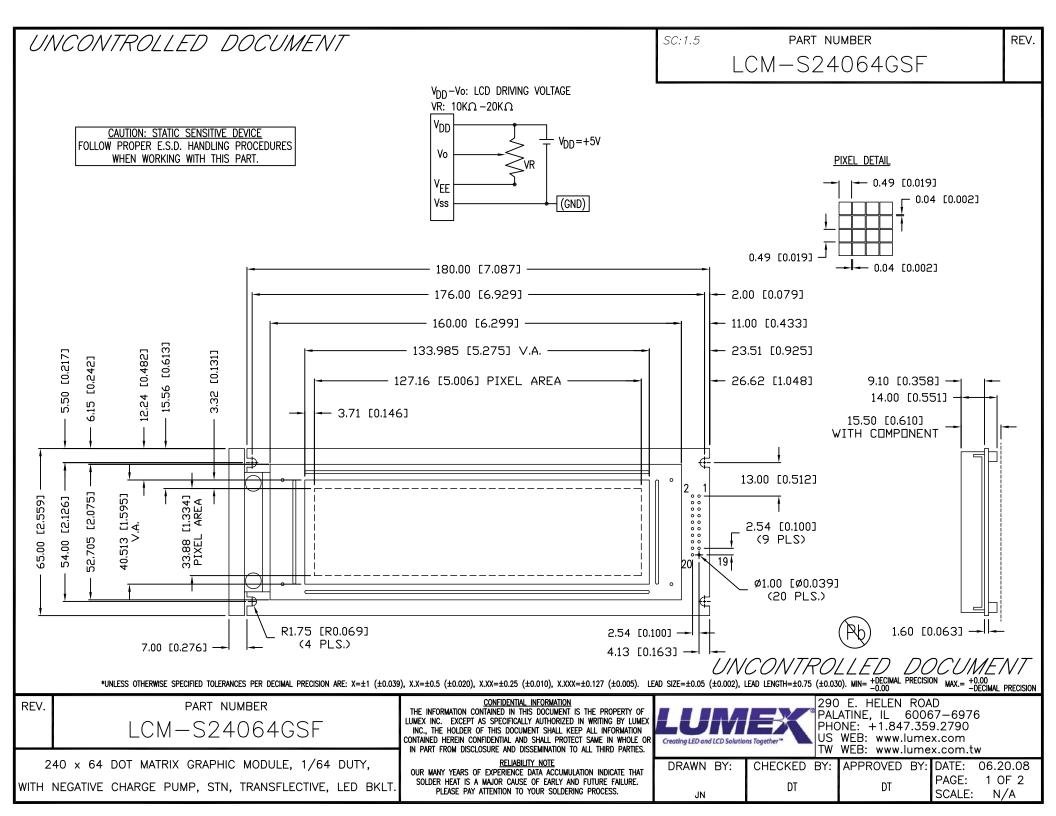
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









PAD

LCM-S24064GSF

ELECTRICAL CHARACTER	RISTICS	\				
ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
POWER SUPPLY VOLTAGE FOR LOGIC	VDD	Ta=25°C	4.5	5.0	5.5	٧
POWER SUPPLY CURRENT FOR LOGIC	IDD	VDD-VSS=5V	-	16.0	25.0	mA
INPUT VOLTAGE	VIH	HIGH LEVEL	2.2	_	VDD	٧
INPUT VOLTAGE	VIL	LOW LEVEL	_	_	0.6	٧
OUTPUT VOLTAGE	VOH	HIGH LEVEL	2.4	_	-	٧
OUTPUT VOLTAGE	VOL	LOW LEVEL	-	-	0.4	V
POWER SUPPLY VOLTAGE FOR LCD DRIVE (0°C TO 50°C)	VDD-Vo	VDD=5V Ta=25°C	12.2	13.6	14.5	٧
POWER SUPPLY VOLTAGE FOR LCD DRIVE (-20°C TO +70°C)	VDD-Vo	VDD=5V Ta=25°C	12.6	14.1	14.9	٧

If = 690

If= 690

If= 990

120

20

N/C

180

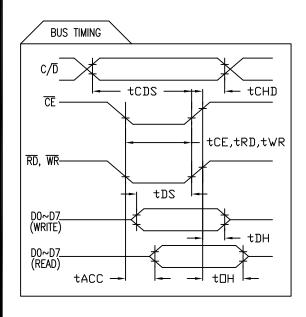
cd/m²

ELECTRIC MAXIMUM RATING

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
POWER SUPPLY FOR LCD DRIVE	VDD-Vo	0	ı	22.0	٧
POWER SUPPLY FOR LOGIC	VDD-VSS	0	_	7.0	٧
INPUT VOLTAGE	l VI	VSS	_	VDD	٧

TIMING CHARACTERISTICS

PARAMETER	SYMBOL	MIN	MAX	UNIT
C/D SETUP TIME	tCDS	100	-	ns
C/D HOLD TIME	tCDH	10	-	ns
CE, RD, WR PULSE WIDTH	tCE, tRD, tWR	80	-	ns
DATA SETUP TIME	tDS	80	-	ns
DATA HOLD TIME	tDH	40	-	ns
ACCESS TIME	tACC	-	150	ns
OUTPUT HOLD TIME	tOH	10	50	ns

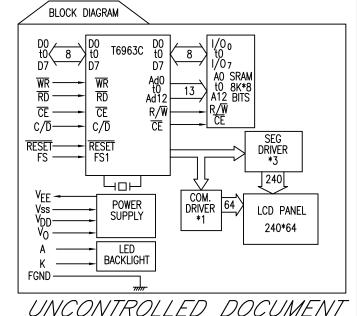


LED BACKLIGHT VOLTAGE

LED BACKLIGHT INTENSITY

LED POWER DISSIPATION

PIN CONFIGURATION PIN # **SYMBOL** LEVEL **FUNCTION** FRAME GROUND (CONNECTED TO METAL BEZEL) FGND 2 GND 0V SIGNAL GROUND V_{DD} +5٧ POWER SUPPLY CONTRAST ADJUSTMENT VOLTAGE 4 Vo WR DATA WRITE \overline{RD} DATA READ CE CHIP ENABLE WR="L". C/D="H": COMMAND WRITE C/D="L": DATA WRITE C/D 8 RD="L", C/D="H": COMMAND READ C/D="L": DATA READ VEE OUTPUT VOTAGE FOR LCD DRIVING **RESET** CONTROL RESET (MODULE RESET) 10 11~18 D0~D7 H/L DATA BUS FONT SELECT "H": 6 x 8 PIXEL/FONT 19 FS "L": 8 x 8 PIXEL/FONT



REV.

PART NUMBER LCM-S24064GSF

240 x 64 DOT MATRIX GRAPHIC MODULE, 1/64 DUTY, WITH NEGATIVE CHARGE PUMP, STN, TRANSFLECTIVE, LED BKLT.

CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT

INO CONNECTION

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<u>reliability</u> note

OUR MANY 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.

CX LUIVIEW
OR Creating LED and LCD Solutions Together*

290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com

TW WEB: www.lumex.com.tw

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DRAWN BY:

APPROVED B

DATE: 06.20.08 PAGE: 2 OF 2 SCALE: N/A