

### UNCONTROLLED DOCUMENT

SC:1.5

## LCM-S24064GSR

PRELIMINARY IN P/N DIR

PART NUMBER

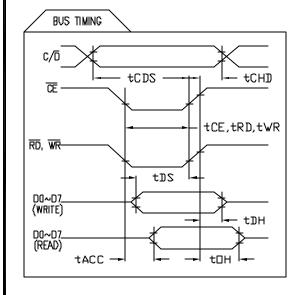
ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT	
Power Supply Voltage For Logic	VDD	Ta=25°C	4.5	5.0	5.5	۷	
Power Supply Current For Logic	IDD	VDD-VSS=5V	-	16.D	25.0	mA	
INPUT VOLTAGE	VIH	HIGH LEVEL	2.2	-	VDD	٧	
INPUT VOLTAGE	VIL	LOW LEVEL	-	-	0,6	V	
OUTPUT VOLTAGE	VOH	HIGH LEVEL	2.4	-	-	V	
OUTPUT VOLTAGE	VOL	LOW LEVEL	-	-	D.4	V	
POWER SUPPLY VOLTAGE FOR LCD DRIVE (O'C TO 50'C)	VDD-V≎	VDD=5V Ta=25°C	12.2	13.6	14.5	۷	
POWER SUPPLY VOLTAGE FOR LCD DRIVE (-20°C TO +70°C)	VDD-V₀	VDD=5V Ta=25°C	12.6	14.1	14.9	۷	

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ITEM	SYMBOL	MIN	TYP	MAX	UNIT
POWER SUPPLY FOR LCD DRIVE	VDD-Vo	0	-	22.0	٧
POWER SUPPLY FOR LOGIC	VDD-VSS	0	1	7.0	V
INPUT VOLTAGE	V	VSS	-	VDD	V

### TIMING CHARACTERISTICS

PARAMETER	SYMBOL	MIN	MAX	UNIT
C/D SETUP TIME	tCDS	10D	-	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	t DH	40	-	ns
ACCESS TIME	10At	-	150	ns
output hold time	ŧОН	10	50	ns



REV.

	PIN C	ONFIGURAT	
PIN #	SYMBOL	LEVEL	FUNCTION
1	FGND	-	FRAME GROUND (CONNECTED TO METAL BEZEL)
2	GND	OV	SIGNAL GROUND
3	VDD	+5V	POWER SUPPLY
4	Vo	-	CONTRAST ADJUSTMENT VOLTAGE
5	WR	L	DATA WRITE
Б	RD	L	DATA READ
7	CE	L	CHIP ENABLE
8	c/D	H/L	WR="L", C/D="H": COMMAND WRITE C/D="L": DATA WRITE RD="L", C/D="H": COMMAND READ C/D="L": DATA READ
9	VEE	-15V	output votage for LCD Driving
10	RESET	L	CONTROL RESET (MODULE RESET)
11~18	D0~D7	H/L	DATA BUS
19	FS	H/L	FONT SELECT "H": 6 x 8 PIXEL/FONT "L": 8 x 8 PIXEL/FONT
20	N/C	-	ND CONNECTION

DIN CONTRUDATION

#### BLOCK DIAGRAM D0 t0 тб963С D0 |/0₀ 10 |/07 Ю Ю 8 8 D7 D7 D7 AD SRAM to BK\*8 A12 BITS AdD to Ad12 WR WR 13 RD RD R∕₩ Ce ĈĒ R/W CE ĊĒ C/D C/D SEG RESET RESET DRIVER FS -FS1 \*3 Z40 ᅴᆷ⊢┙ V<sub>EE</sub> -COM. Driver POWER 64 Vss LCD PANEL SUPPLY \*1 VDD 240\*64 ۷D FGND-\_ UNCONTROLLED DOCUMENT

	PART	NUMBER
LCM-	-S2	24064GSR

240 x 64 DOT MATRIX GRAPHIC MODULE, 1/64 DUTY,

WITH NEGATIVE CHARGE PUMP, STN, REFLECTIVE.

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in part from disclosure and dissemination to all third parties,
RELIABILITY NOTE
our nany 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.

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