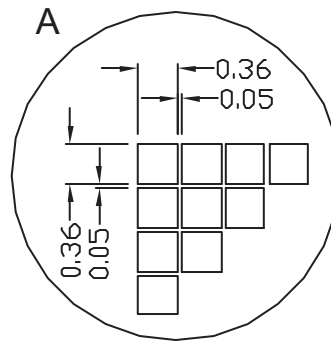
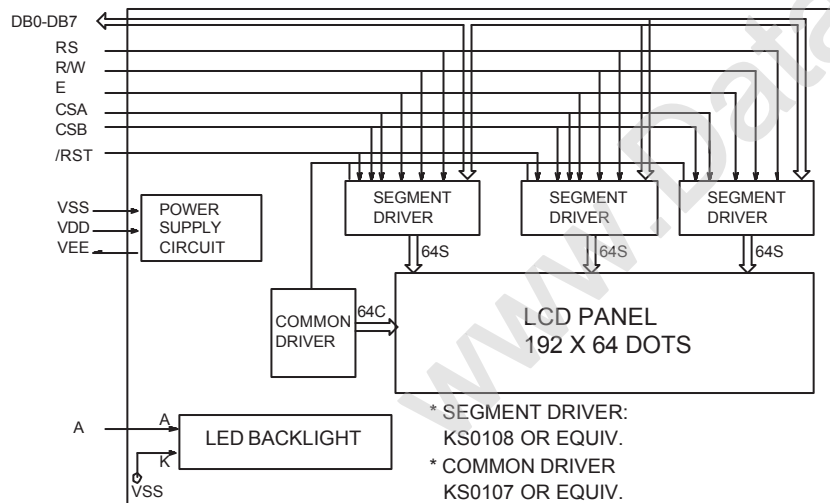
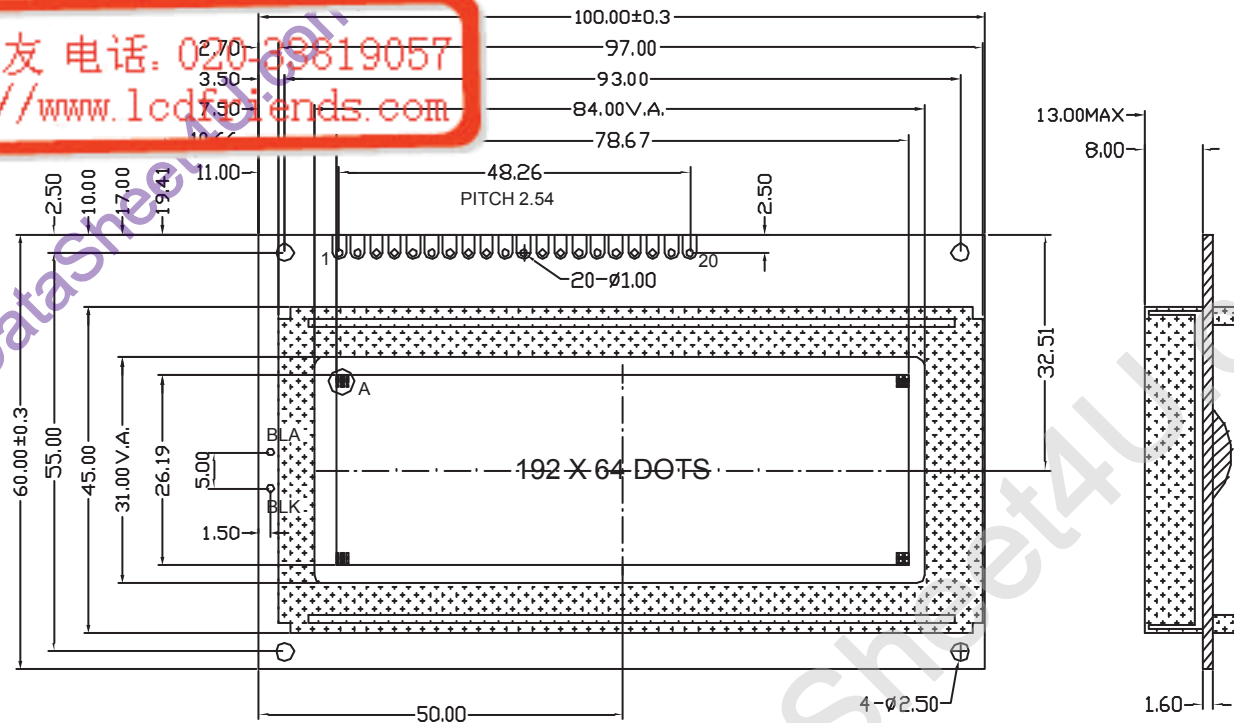


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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	01/06/18	A.CH	NEW RELEASE

PINS ASSIGNMENT

NO.	SYMBOL	DESCRIPTION
1-8	DB7-DB0	DATA BUS
9	E	ENABLE SIGNAL
10	R/W	READ/WRITE SELECT
11	RS	DATA/INSTRUCTION SELECT
12	V0	OPERATING VOLTAGE FOR LCD
13	VDD	POWER SUPPLY FOR LOGIC AND LCD
14	VSS	GROUND
15	CSB	CHIP SELECT SIGNAL A
16	CSA	RESET SIGNAL B
17	VEE	NEGATIVE VOLTAGE OUTPUT/INPUT(-10V)
18	/RST	RESET SIGNAL
19	BLA	POWER SUPPLY FOR LED B.L.(+4.2V)
20	BLK	POWER SUPPLY FOR LED B.L.(0V)

ABSOLUTE MAXIMUM RATING

ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY(LOGIC)	VDD-VSS	0	6.5	V
POWER SUPPLY(LCD DRV.)	VDD-V0	0	18.0	V
INPUT VOLTAGE	V _i	V _i	VDD	V

ELECTRICAL CHARACTERISTICS

ITEM		SYMBOL	MIN	TYP	MAX	UNIT
VOLTAGE FOR LOGIC		VDD-VSS	4.75	5.0	5.25	V
SUPPLY CURRENT		IDD	-	5.1	9.8	mA
LCD OPERATING VOLTAGE	0C	VDD-V0	-	9.2	-	V
	25C		-	9.0	-	V
	40C		-	8.8	-	V
INPUT VOLTAGE	H	VIH	0.7VDD	-	VDD	V
	L	VIL	0	-	0.3VDD	V
VOLTAGE FOR LED BL		VA-VSS	4.0	4.10	4.40	V

MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION	UNIT
OVERALL SIZE	100.0W x 60.0H x 13.0T(10.0T)	MM
VIEWING AREA	84.0W x 31.0H	MM
DOT NUMBER	192 x 64	DOTS
DOT SIZE	0.36W x 0.36H	MM
DOT PITCH	0.41W x 0.41H	MM

OPTIONS

1. LCD TYPE: Y/G STN; GRAY STN; B/W FSTN
2. BACKLIGHT: WITHOUT BACKLIGHT; LED; EL
3. COLOR OF BACKLIGHT: Y/G; BLUE; WHITE
4. TEMPERATURE RANGE: NORMAL(0~50C);
EXTENDED(-20~70C)
5. POWER SUPPLY: ON BOARD DDC(SINGLE 5.0V);
DUAL POWER SUPPLY(5.0V & -10.0V)
- 6.VIEWING ANGLE: 6H; 12H