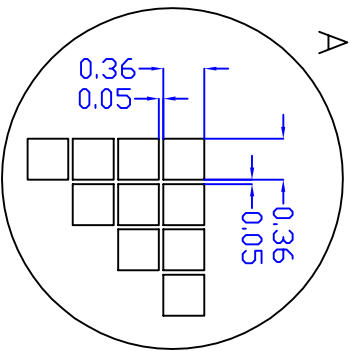


* SEGMENT DRIVER:
KS0108 OR EQUIV.
* COMMON DRIVER:
KS0107 OR EQUIV.

CHIP SELECT SPEC

CSA	CSB	FUNCTION
0	0	Enable access to the left part(64 COL)
0	1	Enable access to the middle part(64 COL)
1	0	Enable access to the right part(64 COL)
1	1	Disable all the access to the LCD



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	03/12/05	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 B
16	CSA	CHIP SELECT SIGNAL A
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	VI	VI	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	V0	-	9.2	-	V
	25C	-	9.0	-	V
	40C	-	8.8	-	V
INPUT VOLTAGE	L	0.7VDD	-	VDD	V
	HL	0	-	0.3VDD	V
VOLTAGE FOR LED B.L	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
- LCD TYPE: Y/G STN; GRAY STN; B/W FSTN
 - BACKLIGHT: WITHOUT BACKLIGHT; LED; EL
 - COLOR OF BACKLIGHT: Y/G; BLUE; WHITE
 - TEMPERATURE RANGE: NORMAL(0--50C); EXTENDED(-20--70C)
 - POWER SUPPLY: ON BOARD DC/DC(SINGLE 5.0V); DUAL POWER SUPPLY(5.0V & -10.0V)
 - VIEWING ANGLE: 6H; 12H

NT-G192642A

192 X 64 DOTS GRAPHIC LCM



NELY, YOUR SUPPLIER, AND YOUR PARTNER!

ALL DIMENSIONS ARE IN MM. TOLERANCE IS +/-0.2 UNLESS OTHERWISE NOTED.

