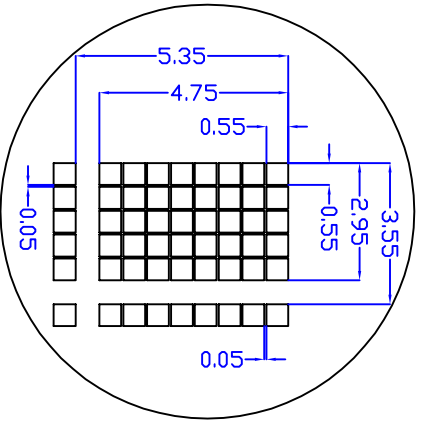
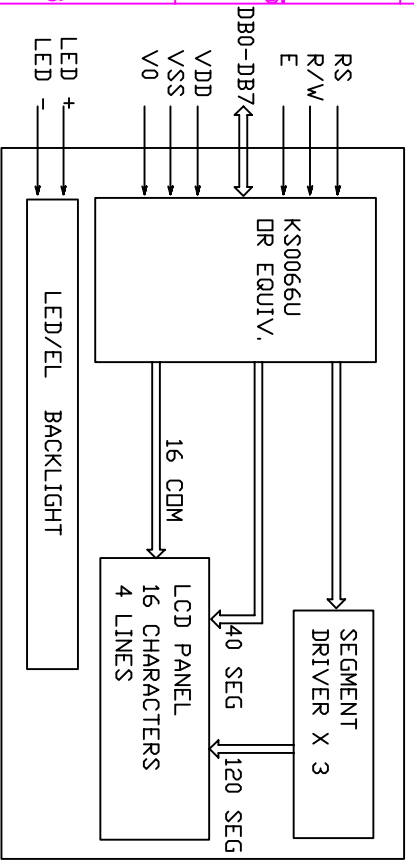


* FDR LED BACKLIGHT
 T1=14.0MAX T2=9.0±0.3
 * FDR EL DR ND BACKLIGHT
 T1=10.0MAX T2=5.0±0.3



NT-C1641A

16 CHARACTERS X 4 LINES



NELY, YOUR SUPPLIER, AND YOUR PARTNER!

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	02/02/25	A.CH	NEW RELEASE

PINS ASSIGNMENT

NO.	SYMBOL	DESCRIPTION
1	VSS	POWER SUPPLY
2	VDD	POWER SUPPLY
3	V0	OPERATING VOLTAGE FOR LCD
4	RS	DATA/INSTRUCTION SELECT
5	R/W	READ/WRITE CONTROL
6	E	ENABLE SIGNAL
7--14	DB0-DB7	DATA BUS
15	LED +	POWER SUPPLY FOR LED BACKLIGHT (+)
16	LED -	POWER SUPPLY FOR LED BACKLIGHT (-)

ABSOLUTE MAXIMUM RATING

ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY (LOGIC)	VDD-VSS	-0.3	7.0	V
POWER SUPPLY (LCD DRV.)	VDD-V0	-0.3	13.5	V
INPUT VOLTAGE	VI	-0.3	VDD	V

ELECTRICAL CHARACTERISTICS (VDD=5.0±0.25V, 25°C)

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25	V
SUPPLY CURRENT	IDD	-	2.0	3.0	mA
VOLTAGE FOR LCD	VDD-V0	-	4.6	-	V
INPUT VOLTAGE	H	V/1H	2.2	-	V
	L	V/1L	-0.3	-	V
OUTPUT VOLTAGE	H	V/OH	2.4	-	V
	L	Vol	-	0.4	V

MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION	UNIT
OVERALL SIZE	87.0W x 60.0H x 14.0T(±0.0T)	MM
VIEWING AREA	62.0W x 25.6H	MM
CHARACTERS	16 CHARACTERS x 4 LINES	MM
CHARACTER SIZE	2.95W x 4.75H	MM
CHARACTER PITCH	3.55W x 5.35H	MM

- OPTIONS
- LCD TYPE: Y/G STN, GRAY STN, TN
 - BACKLIGHT: WITHOUT BACKLIGHT, LED, EL
 - COLOR OF BACKLIGHT: Y/G, BLUE, WHITE
 - TEMPERATURE RANGE: NORMAL(0--50C) EXTENDED(-20--70C)
 - POWER SUPPLY: 5.0V, 3.0V
 - VIEWING ANGLE: 6H, 12H
 - CHARACTER TABLE: JAPANESE, EUROPEAN, CYRILLIC

ALL DIMENSIONS ARE IN MM. TOLERANCE IS ±0.2 UNLESS OTHERWISE NOTED.

