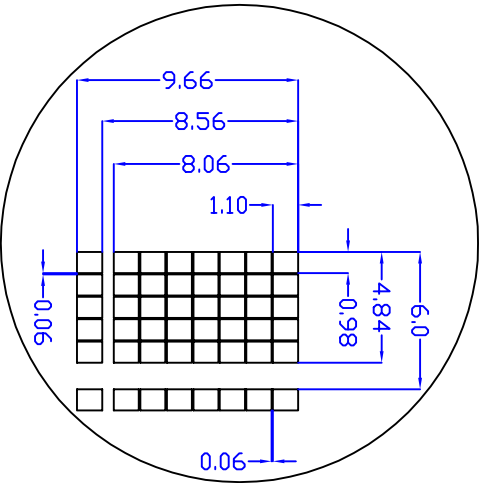
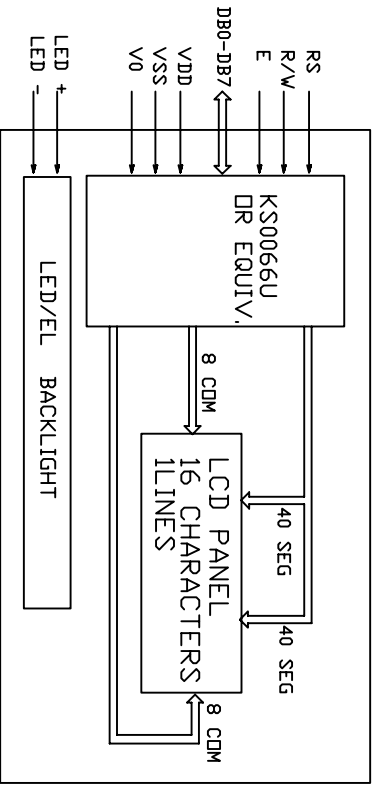


* FOR LED BACKLIGHT
 T1=14.0MAX T2=9.0±0.3
 * FOR EL DR NO BACKLIGHT
 T1=10.0MAX T2=5.0±0.3



| 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 |
| POWER SUPPLY(VDD) | VDD-VSS | -0.3 | 7.0 |
| POWER SUPPLY(LED DRV.) | VDD-V0 | -0.3 | 13.5 |
| INPUT VOLTAGE | V _I | -0.3 | VDD |

| 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 | - | 1.0 | 1.3 | mA |
| VOLTAGE FOR LCD | VDD-V0 | - | 4.6 | - | V |
| INPUT VOLTAGE | V _{IH} | 2.2 | - | VDD | V |
| | V _{IL} | -0.3 | - | 0.6 | V |
| OUTPUT VOLTAGE | V _{OH} | 2.4 | - | - | V |
| | V _{OL} | - | - | 0.4 | V |

| MECHANICAL SPECIFICATIONS | | |
|---------------------------|-------------------------------|------|
| ITEM | SPECIFICATION | UNIT |
| OVERALL SIZE | 122.0V x 33.0H x 14.0T(10.0T) | MM |
| VIEWING AREA | 99.0V x 13.0H | MM |
| CHARACTERS | 16 CHARACTERS x 1 LINES | MM |
| CHARACTER SIZE | 4.84V x 9.66H | MM |
| CHARACTER PITCH | 6.0V x 9.66H | 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

| REVISIONS | | | DESCRIPTION |
|-----------|----------|------|-------------|
| NO. | DATE | BY | NEW RELEASE |
| 1 | 01/09/15 | A.CH | |

NT-C1612A

16 CHARACTERS X 1 LINES



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

NEELY, YOUR SUPPLIER, AND YOUR PARTNER!