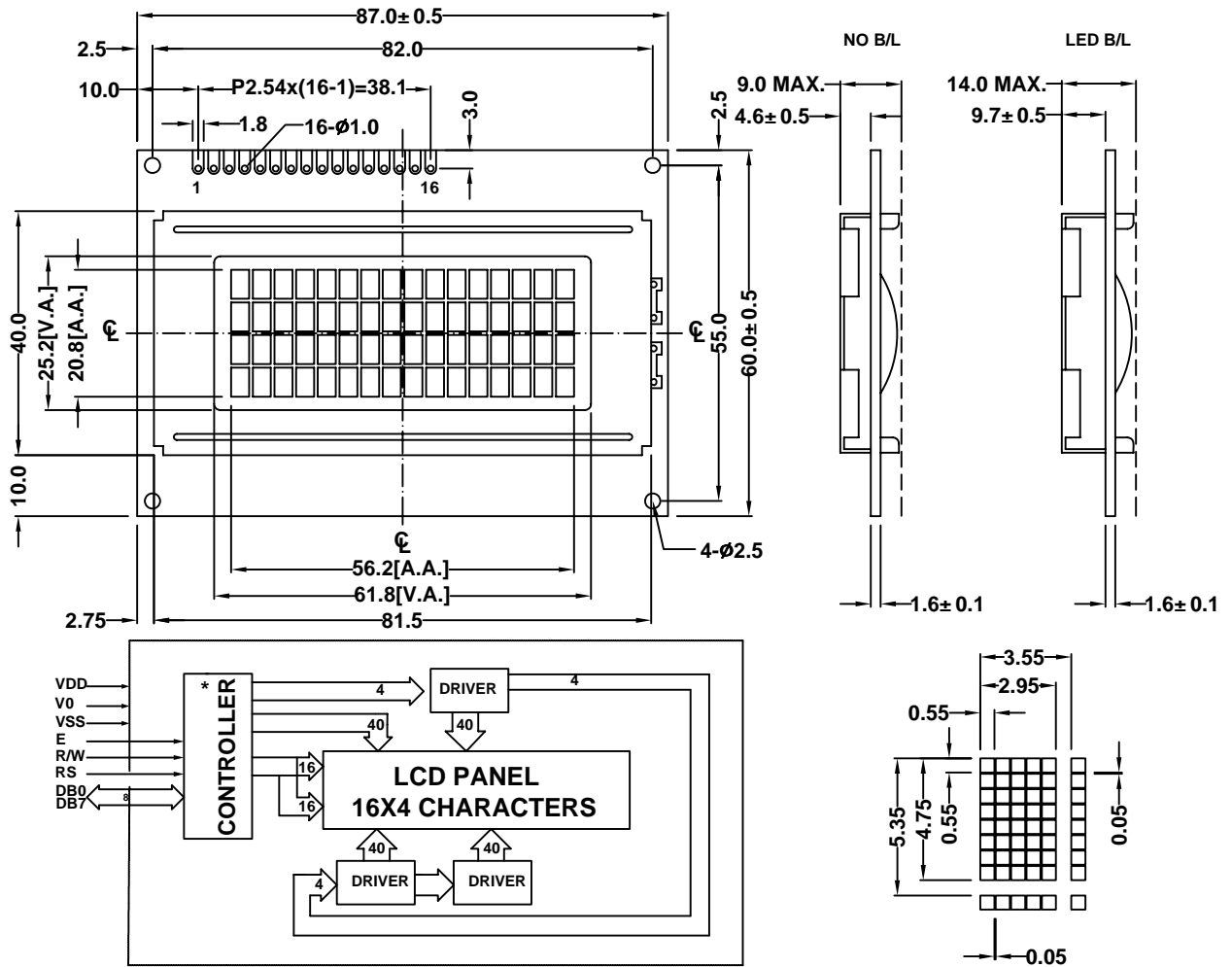


OD-AMC1604A

CONTOUR DRAWING & BLOCK DIAGRAM



* S6A0069 OR EQUIVALENT

| MECHANICAL SPECIFICATION | | |
|--------------------------|--------------------|------|
| ITEM | SPECIFICATION | UNIT |
| Module Size | 87.0X60.0X9.0/14.0 | mm |
| Viewing Area | 61.8X25.2 | mm |
| Character Font | 5 x 7 + cursor | dots |
| Character Size | 2.95X4.75 | mm |
| Character Pitch | 3.55X5.35 | mm |
| Dot Size | 0.55X0.55 | mm |

| ABSOLUTE MAXIMUM RATINGS | | | | |
|--------------------------|--------------|---------|---------|------|
| PARAMETER | SYMBOL | MIN. | MAX. | UNIT |
| Supply Voltage | Vdd | -0.3 | 7.0 | V |
| LCD Supply Voltage | Vlcd(Vdd-V0) | -13.5 | 0.3 | V |
| Input Voltage | Vin | -0.3 | Vdd+0.3 | V |
| Operating Temperature* | Top | 0/-20 | 50/70 | ° C |
| Storage Temperature* | Tstr | -10/-30 | 60/80 | ° C |

*T1/T2: T1 for standard temperature LCM, T2 for wide temperature LCM

| PIN CONNECTIONS | | |
|-----------------|---------|-----------------------|
| PIN | SYMBOL | DESCRIPTION |
| 1 | VSS | Power Supply : 0V |
| 2 | VDD | Power Supply : +5V |
| 3 | V0 | Power Supply for LCD |
| 4 | RS | Register Select |
| 5 | R/W | Read/Write |
| 6 | E | Enable |
| 7 to 14 | DB0-DB7 | Data Bus |
| 15 | A | Anode for backlight |
| 16 | K | Cathode for backlight |

| ELECTRICAL CHARACTERISTICS(Ta=25° C) | | | | | | |
|--------------------------------------|--------|-----------|------|------|------|------|
| ITEM | SYMBOL | CONDITION | MIN. | TYP. | MAX. | UNIT |
| Supply Voltage(logic) | Vdd | - | 4.5 | 5.0 | 5.5 | V |
| Supply Current(logic) | Idd | Vdd=5.0 | 0.5 | 1.0 | 1.5 | mA |
| Driving Voltage(LCD) | Vlcd | - | 4.3 | 5.0 | 5.5 | V |
| Driving Current(LCD) | Ilcd | - | - | 0.2 | 0.4 | mA |

| BACKLIGHT CHARACTERISTICS (Ta=25° C) | | | | | | |
|--------------------------------------|--------|-----------|------|------|------|------|
| PARAMETER | SYMBOL | CONDITION | MIN. | TYP. | MAX. | UNIT |
| Supply Voltage | Vf | If=200mA | 3.8 | 4.1 | 4.3 | V |
| LED Forward Current | If | - | - | 200 | - | mA |
| LED Dissipation | Pd | - | - | 840 | - | mW |