

SG12864D (128 DOTS X 64 DOTS)

| FEATURES

- BUILT-IN CONTROLLER (KS0107 OR EQUIVALENT)
- +5 V POWER SUPPLY
- 1/64 DUTY CYCLE
- 8-BIT PARALLEL INTERFACE

| MECHANICAL DATA

| ITEM | DIMENSIONS | UNIT |
|-------------------------|--------------------|------|
| Module Size (W x H x T) | 93.0 x 70.0 x 11.8 | mm |
| Viewing Area (W x H) | 70.7 x 40.0 | mm |
| Active Area (W x H) | 66.52 x 33.24 | mm |
| Dot Size (W x H) | 0.48 x 0.48 | mm |
| Dot Pitch (W x H) | 0.52 x 0.52 | mm |

| INTERFACE PIN CONNECTIONS

| NO. | SYMBOL | LEVEL | FUNCTION |
|------|------------------|-------|--------------------------------|
| 1 | V _{SS} | 0V | Power Supply Ground |
| 2 | V _{DD} | 5V | Power Supply Voltage |
| 3 | V ₀ | - | Contrast Adjustment Voltage |
| 4 | D/I | H/L | L : Data, H : Instruction Code |
| 5 | R/W | H/L | H : Read / L : Write |
| 6 | E | H→L | Enable Signal |
| 7~14 | DB0-DB7 | H/L | Data Bus Line |
| 15 | CS1 | H | Chip Select Signal For IC1 |
| 16 | CS2 | H | Chip Select Signal For IC2 |
| 17 | /RES | L | Reset Signal |
| 18 | V _{out} | - | Power Supply Voltage For LCD |
| 19 | K | 0V | LED Power (-) |
| 20 | A | 4.2V | LED Power (+) |

| ABSOLUTE MAXIMUM RATINGS

| ITEM | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|------------------------------|-------------------------------|-----------------|------|-----------------|------|
| Supply Voltage For Logic | V _{DD-VSS} | 0 | - | 7 | V |
| Supply Voltage For LCD Drive | V _{DD-V₀} | 0 | - | 14 | V |
| Input Voltage | V _I | V _{SS} | - | V _{DD} | V |

| ELECTRICAL CHARACTERISTICS

| ITEM | SYMBOL | CONDITION | MIN. | TYP. | MAX. | UNIT | |
|--------------------------|-------------------------------|----------------------------|------|------|------|-----------------|---|
| Supply Voltage For Logic | V _{DD-VSS} | - | 4.5 | 5 | 5.5 | V | |
| Supply Voltage For LCD | V _{DD-V₀} | V _{DD} =5V Ta=25. | 7.6 | 8.3 | 9.2 | V | |
| Supply Current | I _{DD} | V _{DD} =5V | - | 4.5 | 10 | mA | |
| Input Voltage | "HIGH" Level | V _{IH} | - | 2.2 | - | V _{DD} | V |
| | "LOW" Level | V _{IL} | - | - | - | 0.6 | V |
| Output Voltage | "HIGH" Level | V _{OH} | - | 2.4 | - | - | V |
| | "LOW" Level | V _{OL} | - | - | - | 0.4 | V |

| EXTERNAL DIMENSIONS

