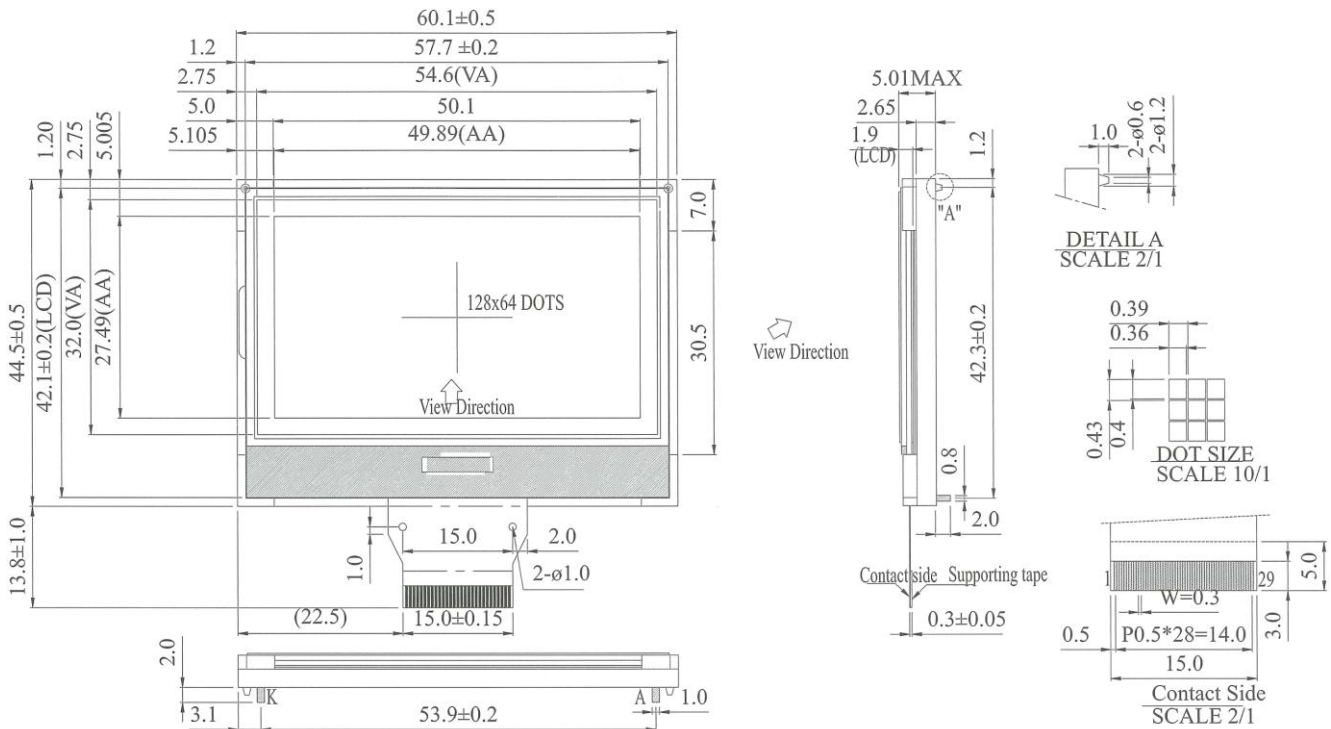


MSO12864A1

Graphic COG 128x64

GMS.

■ ■ ■ DISPLAY SYSTEMS



| Feature | | | |
|--|--------|-----|----------|
| 1. Built-in controller (ST7565P or equivalent) | | | |
| 2. 1/64 duty cycle | | | |
| 3. +3.3V Power supply | | | |
| Pin | Symbol | Pin | Symbol |
| 1 | P/S | 16 | Vdd |
| 2 | C86 | 17 | D7 |
| 3 | VR | 18 | D6 |
| 4 | V0 | 19 | D5 |
| 5 | V1 | 20 | D4 |
| 6 | V2 | 21 | D3 |
| 7 | V3 | 22 | D2 |
| 8 | V4 | 23 | D1 |
| 9 | CAP2N | 24 | D0 |
| 10 | CAP2P | 25 | RD/E |
| 11 | CAP1P | 26 | WR (R/W) |
| 12 | CAP1N | 27 | A0 |
| 13 | CAP3P | 28 | RES |
| 14 | Vout | 29 | CS1 |
| 15 | Vss | | |

| Mechanical Data | | | | | |
|-------------------------|----------------|----------------|-----|-----|------|
| Item | Standard Value | Unit | | | |
| Module Dimension | 60.1x44.5 | mm | | | |
| Viewing Area | 50.1x32.0 | mm | | | |
| Dot Size | 0.36 x 0.40 | mm | | | |
| Dot Pitch | 0.39 x 0.43 | mm | | | |
| Absolute Maximum Rating | | | | | |
| Item | Symbol | Standard Value | | | Unit |
| | | min | typ | max | |
| Power Supply | Vdd - Vss | -0.3 | --- | 5.0 | V |
| Input Voltage | Vi | --- | --- | --- | V |

Note: Vss=0 V, Vdd=3.3 V

| Electronical Characteristics | | | | | | |
|--|--------|-----------|----------------|------|------|------|
| Item | Symbol | Condition | Standard Value | | | Unit |
| | | | min | typ | max | |
| Input Voltage | Vdd | | 2.7 | 3.0 | 3.3 | V |
| Supply Current | Idd | Vdd=3.0V | --- | 0.1 | 2.0 | mA |
| Recommended LC Driving Voltage for normal Temperature Version module | Vo-Vss | -20°C | 9.43 | 9.73 | 10.3 | V |
| | | 0°C | --- | --- | --- | |
| | | 25°C | 9.20 | 9.45 | 9.70 | |
| | | 50°C | --- | --- | --- | |
| | | 70°C | 8.87 | 9.17 | 9.47 | |

See Specification for Backlight information.

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