

F-TOM-M12117AMR-B

Dot Matrix Display LED

| Part Number | Chip | | Face Color | Segment Color |
|-------------------|----------|--------------|------------|---------------|
| | Material | Source Color | | |
| F-TOM-M12117AMR-B | AlGaInP | Ultra-red | Black | White |

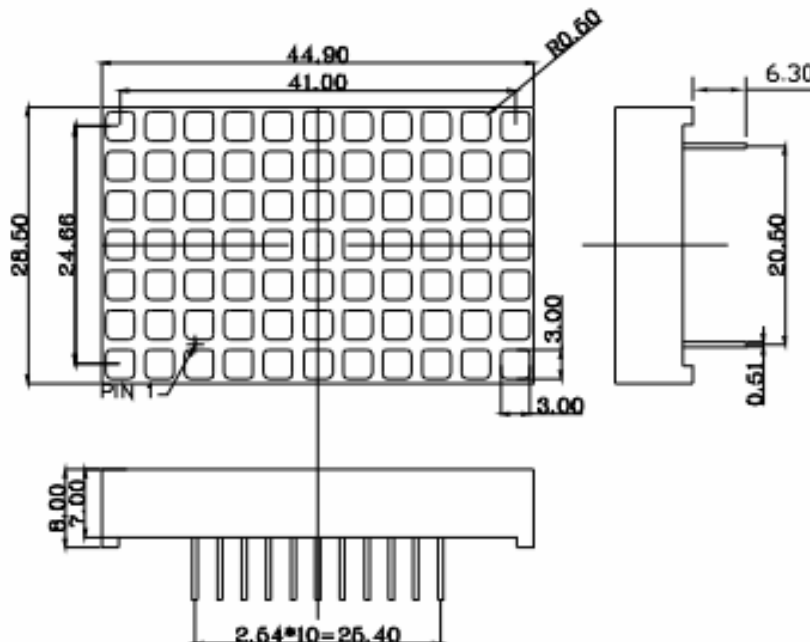
Features

- (7X11) ϕ 3.0mm dot matrix
- Row common cathode
- I.C. compatible
- Low power requirement
- RoHS compliant

Applications

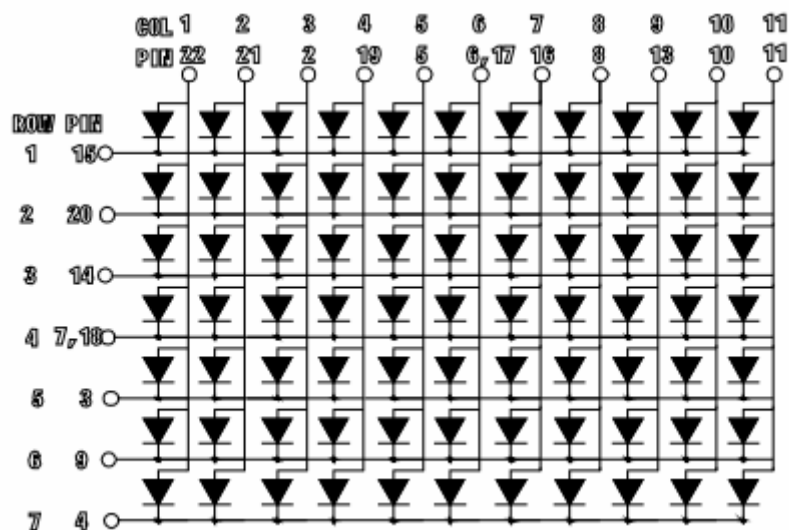
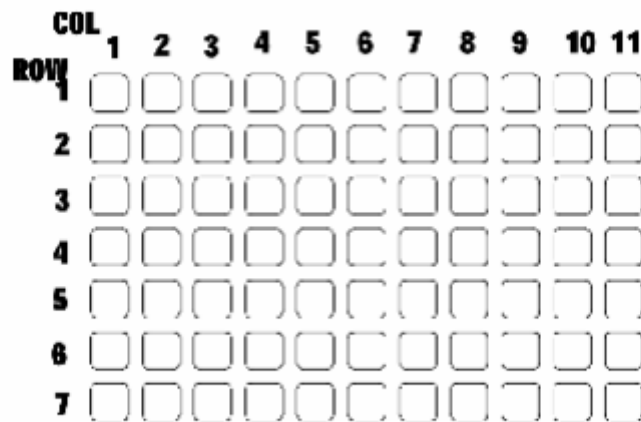
- Audio equipment
- Instrument panels
- Indoor display

Package Dimensions & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters, tolerance: ± 0.25 ; Angle: $\pm 0.1^\circ$ unless otherwise noted.
2. Specifications are subject to change without notice.



Absolute Maximum Rating @ Ta=25°C

| Parameter | Maximum Rating | Unit |
|---|-------------------|------|
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 80 | mA |
| Power Dissipation Per Dot | 75 | mW |
| Continuous Forward Current Per Dice | 20 | mA |
| Recommend Operating Current Per Dice | 12 | mA |
| Reverse Voltage Per Dice | 5 | V |
| Operating Temperature Range | -25°C to +85°C | |
| Storage Temperature Range | -30°C to +85°C | |
| Lead-Free Solder Temperature(1/16 Inch Below Seating Plane) | 260±5°C for 5 Sec | |

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Electrical / Optical Characteristic @ Ta=25°C

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition | Grade |
|------------------------------------|-------------------|------|------|-------|------|----------------------|-------|
| Average Luminous Intensity Per Dot | I _v | 8.3 | 10.5 | -- | mcd | I _F =10mA | |
| Dominant Wavelength | λ _d | 627 | 630 | 633 | nm | I _F =20mA | |
| Spectral Line Half-Width | Δλ | | 15 | | nm | I _F =20mA | |
| Forward Voltage Per Dice | V _F | 1.8 | 2.0 | 2.3 | V | I _F =20mA | |
| Reverse Current Per Dice | I _R | | | 20 | μA | V _R =5V | |
| Luminous Intensity Matching Rate | I _v -m | | | 2.0:1 | | I _F =20mA | |

The DISPLAYS should be kept at 30°C or less and 60%RH or less. The DISPLAYS should be used within one year.

Package Description

