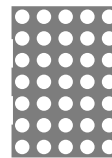


## Ø 5.0 5x7 Dot Matrix Dual Color LED Display

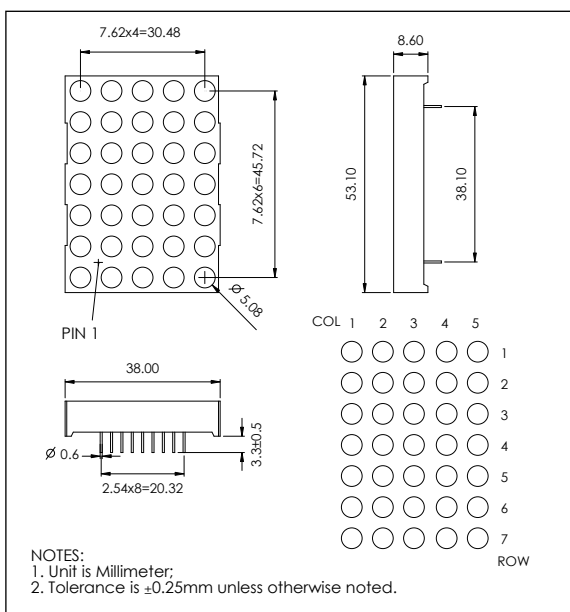


2.0" (50.8mm) matrix height

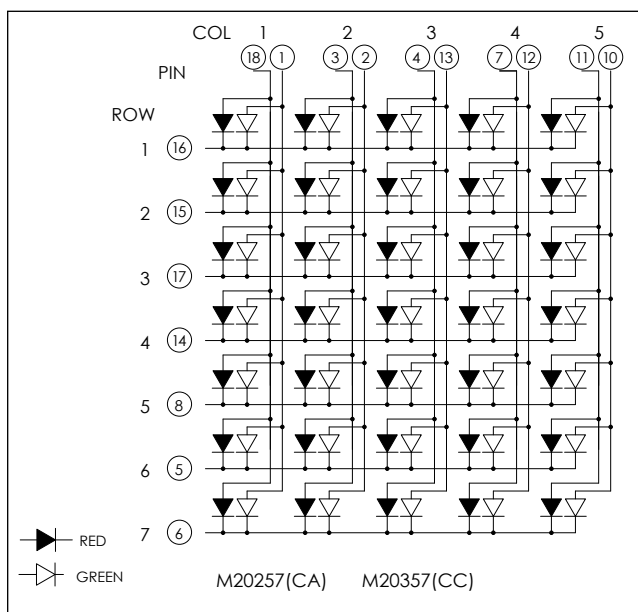
● ABSOLUTE MAXIMUM RATINGS : (Ta=25°C)

| PARAMETER   | SR RED          | RED ORANGE | GREEN      | UNIT        |
|---|-----------------|------------|------------|-------------|
| Power Dissipation Per Seg   | 72              | 65         | 65         | mW          |
| Peak Forward Current Per Seg<br>(1/10 Duty Cycle, 0.1ms Pulse Width)    | 125             | 100        | 100        | mA          |
| Continuous Forward Current Per Seg<br>Derating Linear From 25°C Per Seg | 30<br>0.42      | 25<br>0.33 | 25<br>0.33 | mA<br>mA/°C |
| Reverse Voltage Per Seg   | 5               | 5          | 5          | v           |
| Operating Tem Range   | -35°C to + 85°C |            |            |             |
| Storage Tem Range   | -35°C to + 85°C |            |            |             |
| Solder Tem 1/16 inch Below Seating Plane at 260°C for 3 seconds         |                 |            |            |             |

### ● PACKAGE DIMENSIONS



### ● INTERNAL CIRCUIT DIAGRAM



### ● ELECTRICAL/OPTICAL CHARACTERISTICS

| PART NO.     | COLOR      | $\lambda_p/\lambda_d$<br>(nm) | Half-Spectral<br>Width( $\Delta\lambda$ ) | Description | AVERAGE LUMINOUS INTENSITY |           |                      | FORWARD VOLTAGE |          |
|--------------|------------|-------------------------------|---|-------------|----------------------------|-----------|----------------------|-----------------|----------|
|              |            |                               |   |             | Min.(mcd)                  | Typ.(mcd) | @ IF(mA)             | Typ.(V)         | @ IF(mA) |
| M202570EG... | RED ORANGE | 632/622                       | 35  | CA          | 1.2                        | 3.0       | Ip=80mA<br>1/16 Duty | 2               | 20       |
|              | GREEN      | 568/570                       | 30  |             | 1.2                        | 3.0       |                      | 2.1             | 20       |
| M202570SU... | SR RED     | 660/643                       | 20  | CA          | 2.0                        | 5.0       |                      | 1.8             | 20       |
|              | GREEN      | 568/570                       | 30  |             | 1.6                        | 4.0       |                      | 2.1             | 20       |

Notes : These components are also available in :

- Low Current
- AllnGaP high intensity red,orange,yellow green,amber



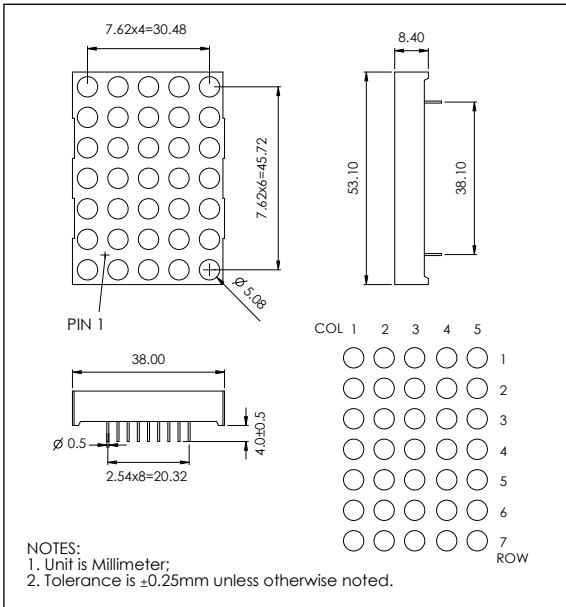
## Ø 5.0 5x7 Dot Matrix Dual Color LED Display

2.0" (50.8mm) matrix height

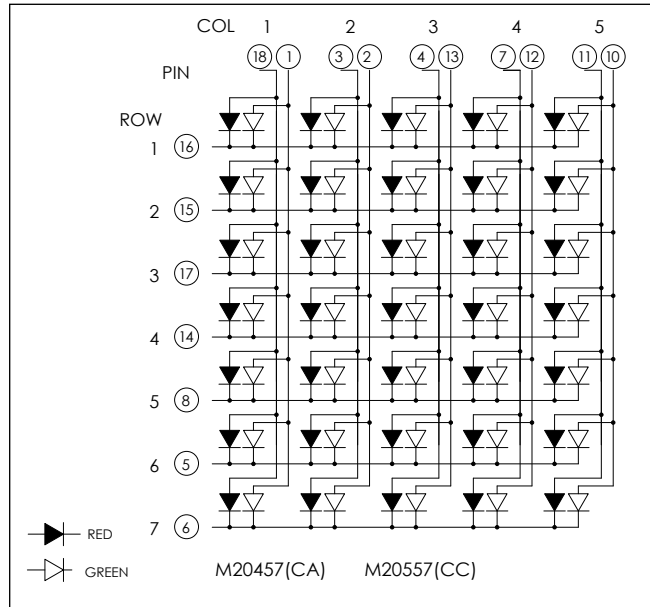
● ABSOLUTE MAXIMUM RATINGS : (Ta=25°C)

| PARAMETER  | SR RED          | RED ORANGE | GREEN | UNIT  |
|--|-----------------|------------|-------|-------|
| Power Dissipation Per Seg  | 72              | 65         | 65    | mW    |
| Peak Forward Current Per Seg<br>(1/10 Duty Cycle, 0.1ms Pulse Width) | 125             | 100        | 100   | mA    |
| Continuous Forward Current Per Seg                                   | 30              | 25         | 25    | mA    |
| Derating Linear From 25°C Per Seg                                    | 0.42            | 0.33       | 0.33  | mA/°C |
| Reverse Voltage Per Seg  | 5               | 5          | 5     | v     |
| Operating Tem Range  | -35°C to + 85°C |            |       |       |
| Storage Tem Range  | -35°C to + 85°C |            |       |       |
| Solder Tem 1/16 inch Below Seating Plane at 260°C for 3 seconds      |                 |            |       |       |

### ● PACKAGE DIMENSIONS



### ● INTERNAL CIRCUIT DIAGRAM



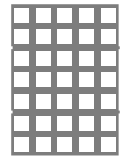
### ● ELECTRICAL/OPTICAL CHARACTERISTICS

| PART NO.     | COLOR      | $\lambda_p/\lambda_d$<br>(nm) | Half-Spectral<br>Width( $\Delta\lambda$ ) | Description | AVERAGE LUMINOUS INTENSITY |           |                      | FORWARD VOLTAGE |          |
|--------------|------------|-------------------------------|---|-------------|----------------------------|-----------|----------------------|-----------------|----------|
|              |            |                               |   |             | Min.(mcd)                  | Typ.(mcd) | @ IF(mA)             | Typ.(V)         | @ IF(mA) |
| M204570EG... | RED ORANGE | 632/622                       | 35  | CA          | 1.2                        | 3.0       | Ip=80mA<br>1/16 Duty | 8               | 20       |
|              | GREEN      | 568/573                       | 30  |             | 1.2                        | 3.0       |                      | 8.4             | 20       |
| M204570SU... | SR RED     | 660/643                       | 20  | CA          | 2.0                        | 5.0       |                      | 8               | 20       |
|              | GREEN      | 568/570                       | 30  |             | 1.2                        | 4.0       |                      | 8.4             | 20       |

Notes : These components are also available in :

- Low Current
- AllnGaP high intensity red,orange,yellow green,amber

## 5.0 Square 5x7 Dot Matrix Dual Color LED Display

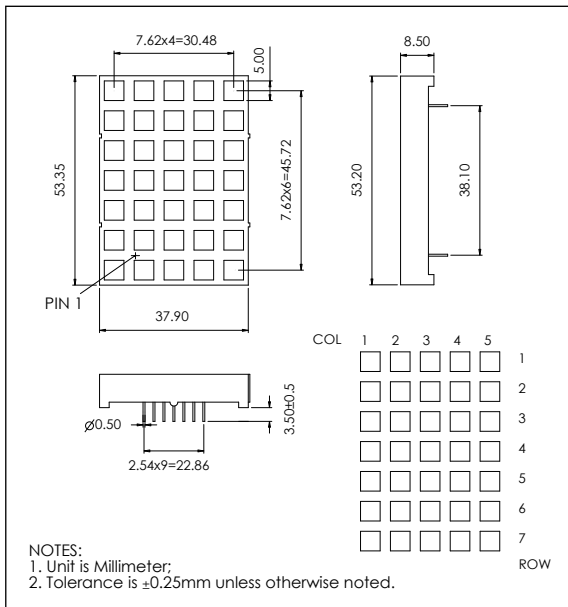


2.0" (50.8mm) matrix height

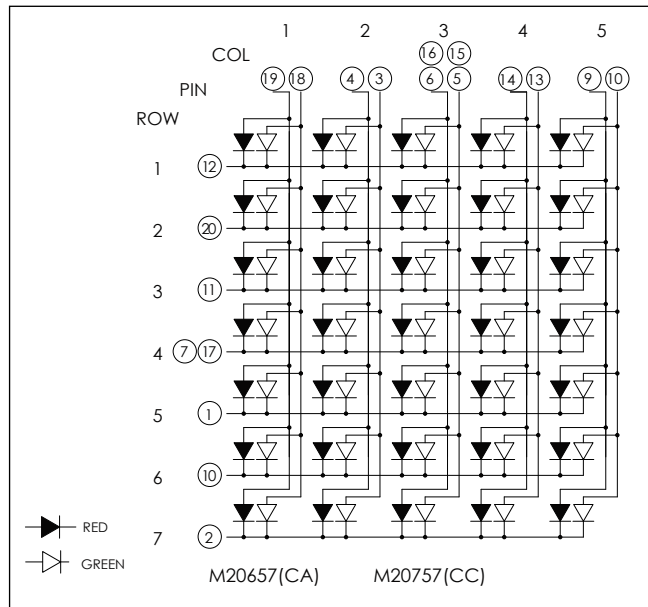
● ABSOLUTE MAXIMUM RATINGS : (Ta=25°C)

| PARAMETER  | SR RED          | RED ORANGE | GREEN | UNIT  |
|--|-----------------|------------|-------|-------|
| Power Dissipation Per Seg  | 72              | 65         | 65    | mW    |
| Peak Forward Current Per Seg<br>(1/10 Duty Cycle, 0.1ms Pulse Width) | 125             | 100        | 100   | mA    |
| Continuous Forward Current Per Seg                                   | 30              | 25         | 25    | mA    |
| Derating Linear From 25°C Per Seg                                    | 0.42            | 0.33       | 0.33  | mA/°C |
| Reverse Voltage Per Seg  | 5               | 5          | 5     | v     |
| Operating Tem Range  | -35°C to + 85°C |            |       |       |
| Storage Tem Range  | -35°C to + 85°C |            |       |       |
| Solder Tem 1/16 inch Below Seating Plane at 260°C for 3 seconds      |                 |            |       |       |

### ● PACKAGE DIMENSIONS



### ● INTERNAL CIRCUIT DIAGRAM



### ● ELECTRICAL/OPTICAL CHARACTERISTICS

| PART NO.     | COLOR      | $\lambda_p/\lambda_d$<br>(nm) | Half-Spectral<br>Width( $\Delta\lambda$ ) | Description | AVERAGE LUMINOUS INTENSITY |           |                      | FORWARD VOLTAGE |          |
|--------------|------------|-------------------------------|---|-------------|----------------------------|-----------|----------------------|-----------------|----------|
|              |            |                               |   |             | Min(mcd)                   | Typ.(mcd) | @ IF(mA)             | Typ.(V)         | @ IF(mA) |
| M206570EG... | RED ORANGE | 632/622                       | 35  | CA          | 1.2                        | 3.0       | Ip=80mA<br>1/16 Duty | 2               | 20       |
|              | GREEN      | 568/570                       | 30  |             | 1.2                        | 3.0       |                      | 2.1             | 20       |
| M206570SU... | SR RED     | 660/643                       | 20  | CA          | 2.0                        | 5.0       |                      | 1.8             | 20       |
|              | GREEN      | 568/570                       | 30  |             | 1.6                        | 4.0       |                      | 2.1             | 20       |

Notes : These components are also available in :

- Low Current
- AllnGaP high intensity red,orange,yellow green,amber