

MICRO ELECTRONICS

MG2157A/C
MO2157A/C
MY2157A/C
MU2157A/C

LED DOT MATRIX DISPLAY

FEATURES :

Red, green, orange, yellow, ultra bright red.

| | | |
|-----------|---|-------------------------|
| MS2157A/C | - | Red GaP |
| MG2157A/C | - | Green GaP |
| MO2157A/C | - | Orange GaAsP |
| MY2157A/C | - | Yellow GaAsP |
| MU2157A/C | - | Ultra bright red GaAlAs |

Anode column, Cathode row (with suffix A);

Cathode column, Anode row (with suffix C)

High contrast

Wide viewing angle

5 x 7 matrix array with row-column select

Regged encapsulation (Filled reflector construction)

End & side stackable

ABSOLUTE MAXIMUM RATINGS

| | MS2157A | MG2157A | MO2157A | MY2157A | MU2157A | UNIT | |
|--|---------|---------|---------|---------|---------|------------|----|
| | MS2157C | MG2157C | MO2157C | MY2157C | MU2157C | | |
| Power Dissipation / Dot | 40 | 75 | 75 | 60 | 100 | mW | |
| Peak Forward Current / Dot* | 60 | 100 | 100 | 80 | 160 | mA | |
| Continuous Forward Current / Dot | 15 | 25 | 25 | 20 | 30 | mA | |
| Reverse Voltage / Dot | 5 | 5 | 5 | 5 | 5 | V | |
| Operating Temperature Range | | | | | | -20 to +80 | °C |
| Storage Temperature Range | | | | | | -20 to +75 | °C |
| Lead Soldering Temperature (1/16" from body, 5 sec.) | | | | | | 260 | °C |

* Note : Pulse Width = 1mS, Duty Ratio = 1/10.

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

| PARAMETER | SYMBOL | SYMBOL | MS2157A | MG2157A | MO2157A | MY2157A | MU2157A | UNIT | CONDITIONS |
|-------------------------------------|--------|--------|---------|---------|---------|---------|---------|------|------------|
| | | | MS2157C | MG2157C | MO2157C | MY2157C | MU2157C | | |
| Forward Voltage | TYP | VF | 2.2 | 2.2 | 2.0 | 2.1 | 1.8 | V | IF=20mA |
| | MAX | | 3.0 | 3.0 | 3.0 | 3.0 | 2.4 | V | |
| Luminous Intensity | MIN | IV | 0.6 | 3 | 2 | 1.8 | 4.5 | mcd | IF=10mA |
| | TYP | | 1 | 5.5 | 3.2 | 2.8 | 9 | mcd | |
| Dot to Dot Luminous Intensity Ratio | MAX | | 2:1 | 2:1 | 2:1 | 2:1 | 2:1 | | IF=10mA |
| Reverse Current | MAX | IR | 100 | 100 | 100 | 100 | 100 | μA | VR=5V |
| Peak Wavelength | TYP | λp | 700 | 565 | 630 | 585 | 660 | nm | IF=20mA |
| Spectral Line Half Width | TYP | Δλ | 100 | 30 | 40 | 35 | 20 | nm | IF=20mA |

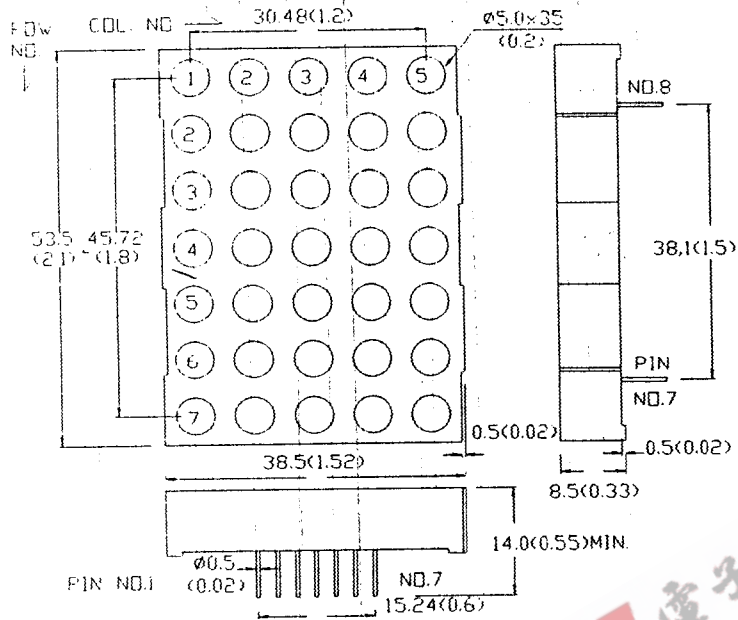


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Mar-97



(A)

| COLUMN | 1 | 2 | 3 | 4 | 5 |
|---------|----|---|---|----|---|
| PIN NO. | 13 | 3 | 4 | 10 | 6 |

ROW

| | | | | | | |
|---|----|---|---|---|---|---|
| 1 | 9 | ▽ | ▽ | ▽ | ▽ | ▽ |
| 2 | 14 | ▽ | ▽ | ▽ | ▽ | ▽ |
| 3 | 8 | ▽ | ▽ | ▽ | ▽ | ▽ |
| 4 | 12 | ▽ | ▽ | ▽ | ▽ | ▽ |
| 5 | 1 | ▽ | ▽ | ▽ | ▽ | ▽ |
| 6 | 7 | ▽ | ▽ | ▽ | ▽ | ▽ |
| 7 | 2 | ▽ | ▽ | ▽ | ▽ | ▽ |

(B)

| COLUMN | 1 | 2 | 3 | 4 | 5 |
|---------|----|---|---|----|---|
| PIN NO. | 13 | 3 | 4 | 10 | 6 |

ROW

| | | | | | | |
|---|----|---|---|---|---|---|
| 1 | 9 | △ | △ | △ | △ | △ |
| 2 | 14 | △ | △ | △ | △ | △ |
| 3 | 8 | △ | △ | △ | △ | △ |
| 4 | 12 | △ | △ | △ | △ | △ |
| 5 | 1 | △ | △ | △ | △ | △ |
| 6 | 7 | △ | △ | △ | △ | △ |
| 7 | 2 | △ | △ | △ | △ | △ |