

SEVEN SEGMENT NUMERIC DISPLAY

High Performance GaP, GaAsP Dice

0.39 inch Character Height

High Contrast

Wide Viewing Angle

Common Anode - MS139A, MG139A, MO139A

Common Cathode - MS139C, MG139C, MO139C

ABSOLUTE MAXIMUM RATINGS

| | MS139 | MG139 | MO139 | UNIT |
|--------------------------------------|------------|-------|-------|------|
| Power Dissipation / Segment | 40 | 75 | 75 | mW |
| Peak Forward Current / Segment* | 60 | 100 | 100 | mA |
| Continuous Forward Current / Segment | 15 | 25 | 25 | mA |
| Reverse Voltage / Segment | 5 | 5 | 5 | V |
| Operating Temperature Range | -25 to +85 | | | °C |
| Storage Temperature Range | -25 to +85 | | | °C |

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

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

| PARAMETER | SYMBOL | MS139 | MG139 | MO139 | UNIT | CONDITIONS |
|--------------------------|--------|-------|-------|-------|------|------------|
| Forward Voltage | MAX VF | 3.0 | 3.0 | 3.0 | V | IF=20mA |
| Luminous Intensity | MIN IV | 350 | 1300 | 1050 | μcd | IF=10mA |
| | TYP | 500 | 2350 | 1600 | | |
| Segment to Segment | MAX | 2:1 | 2:1 | 2:1 | | IF=20mA |
| Luminous Intensity Ratio | | | | | | |
| Peak Wavelength | TYP λp | 700 | 565 | 630 | nm | IF=20mA |
| Spectral Line Half Width | TYP Δλ | 100 | 30 | 40 | nm | IF=20mA |



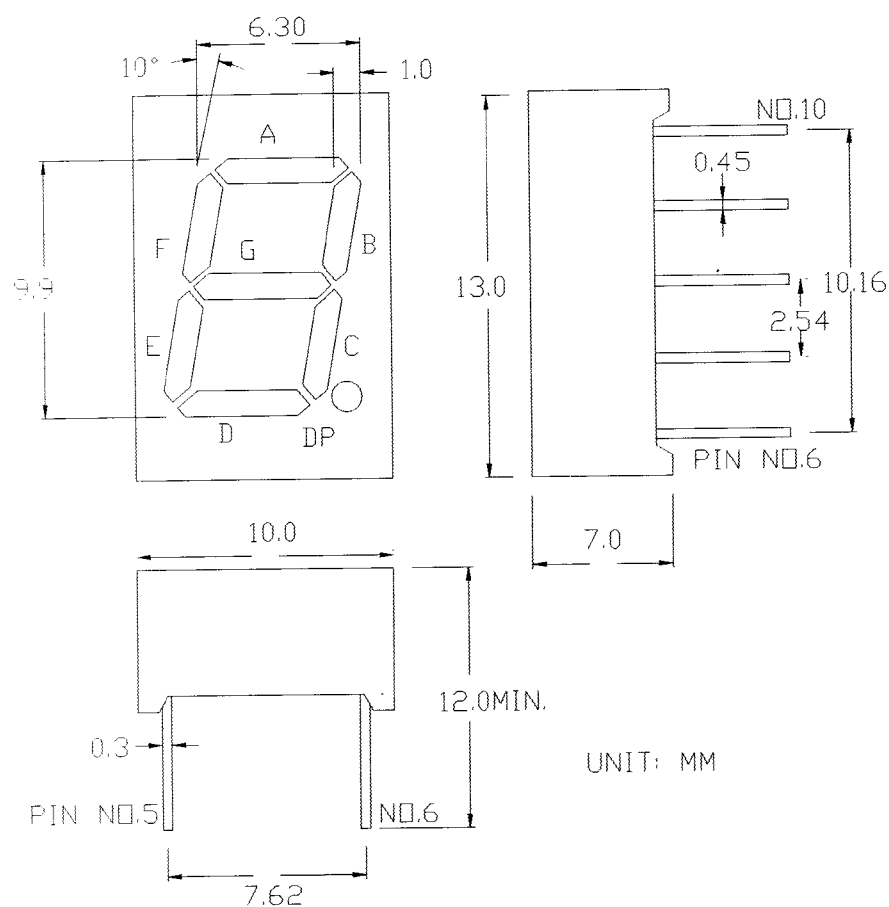
MICRO ELECTRONICS LTD.

38, Hung To Road, Microtron Buiding, Kwun Tong, Kowloon, Hong Kong.

Kwun Tong P.O. Box 69477 Hong Kong. Fax No. 2341 0321 Telex:43510 Micro Hx. Tel: 2343 0181-5

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MECHANICAL OUTLINE:



CIRCUIT DIAGRAM:

