

## SEVEN SEGMENT NUMERIC DISPLAY

High Performance GaP, GaAsP Dice  
0.3 inch Character Height  
High Contrast  
Wide Viewing Angle  
Common Anode - MS131A, MG131A, MY131A, MO131A  
Common Cathode - MS131C, MG131C, MY131C, MO131C

## ABSOLUTE MAXIMUM RATINGS

|  | MG131      |       |       | UNIT |
|--|------------|-------|-------|------|
|  | MS131      | MY131 | MO131 |      |
| Power Dissipation / Segment                          | 40         | 60    | 75    | mW   |
| Peak Forward Current / Segment*                      | 60         | 80    | 100   | mA   |
| Continuous Forward Current / Segment                 | 15         | 20    | 25    | mA   |
| Reverse Voltage / Segment                            | 5          | 5     | 5     | V    |
| Operating Temperature Range                          | -25 to +85 |       |       | °C   |
| Storage Temperature Range                            | -25 to +85 |       |       | °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 | MS131 | MG131 | MY131 | MO131 | UNIT | CONDITIONS |
|--------------------------|--------|-------|-------|-------|-------|------|------------|
| Forward Voltage          | MAX VF | 3.0   | 3.0   | 3.0   | 3.0   | V    | IF=20mA    |
| Luminous Intensity       | MIN IV | 320   | 1200  | 800   | 960   | μcd  | IF=10mA    |
|                          | TYP    | 450   | 2100  | 1200  | 1400  | μcd  | IF=10mA    |
| Segment to Segment       | MAX    | 2:1   | 2:1   | 2:1   | 2:1   |      | IF=20mA    |
| Luminous Intensity Ratio |        |       |       |       |       |      |            |
| Reverse Current Any Bar  | MAX IR | 100   | 100   | 100   | 100   | μA   | VR=5V      |
| Peak Wavelength          | TYP λp | 700   | 565   | 585   | 630   | nm   | IF=20mA    |
| Spectral Line Half Width | TYP Δλ | 100   | 30    | 35    | 35    | nm   | IF=20mA    |



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