

# TOD-18201BMRL-B

## Dual Digit Display LED

| Part Number     | Chip     |              | Face Color | Segment Color |
|-----------------|----------|--------------|------------|---------------|
|                 | Material | Source Color |            |               |
| TOD-18201BMRL-B | AlGaInP  | Ultra-red    | Black      | White         |

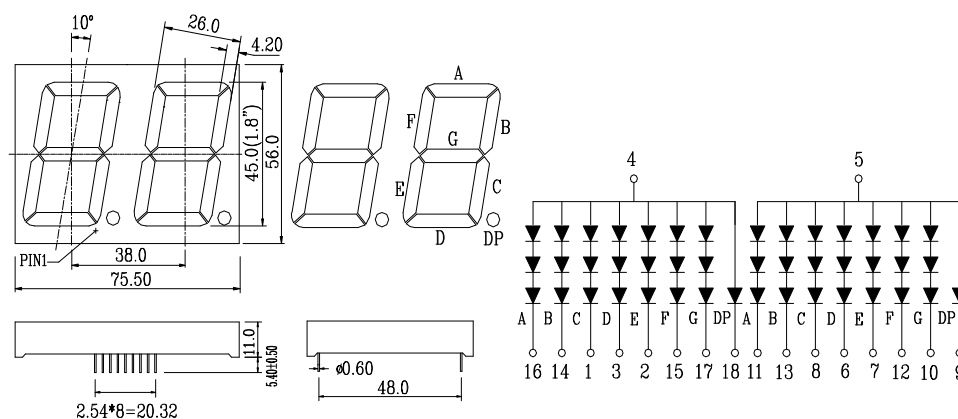
### Features

- (1.80") 45.00mm digit height
- Common anode
- I.C. compatible
- Low power requirement
- RoHS compliant

### Applications

- Audio equipment
- Instrument panels
- Digital read out display

### Package Dimensions & Internal Circuit Diagram



#### Notes:

1. All dimensions are in millimeters, tolerance:  $\pm 0.25$  ; 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 Dice(Except Dp)                       | 225             | mW   |
| Continuous Forward Current Per Dice                         | 20              | mA   |
| Recommend Operating Current Per Dice                        | 12              | mA   |
| Reverse Voltage Per Dice                                    | 15              | 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°C for 3 Sec |      |

## Electrical / Optical Characteristic @ Ta=25°C

| Parameter                               | Symbol            | Min. | Typ.  | Max.  | Unit | Test Condition       | Grade |
|-----------------------------------------|-------------------|------|-------|-------|------|----------------------|-------|
| Luminous Intensity Per Segment          | I <sub>v</sub>    |      | 21937 |       | ucd  | I <sub>F</sub> =10mA |       |
| Dominant Wavelength                     | λ <sub>d</sub>    |      | 640   |       | nm   | I <sub>F</sub> =20mA |       |
| Spectral Line Half-Width                | Δλ                |      | 15    |       | nm   | I <sub>F</sub> =20mA |       |
| Forward Voltage Per Dice<br>(Except Dp) | V <sub>F</sub>    | 5.4  | 6.0   | 6.9   | V    | I <sub>F</sub> =20mA |       |
| Reverse Current Per Dice                | I <sub>R</sub>    |      |       | 100   | μA   | V <sub>R</sub> =5V   |       |
| Luminous Intensity Matching Rate        | I <sub>v</sub> -m |      |       | 2.0:1 |      | I <sub>F</sub> =20mA |       |