



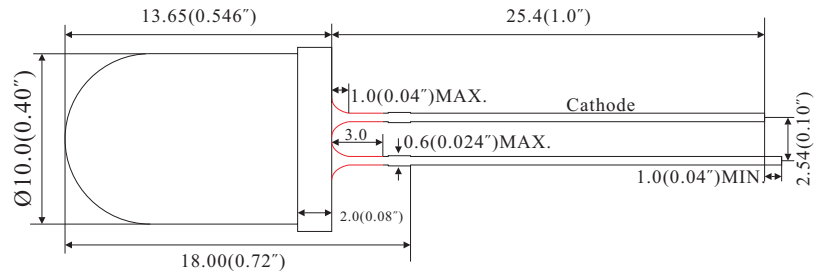
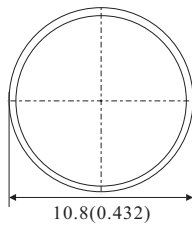
# TOYO LED ELECTRONICS LIMITED

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## PACKAGE DIMENSION

### TY-100UR5M100-500



### Selection Guide

| Part No.          | Dice         |                  | Lens Color     | (If=20mA)  | Viewing Angle |
|-------------------|--------------|------------------|----------------|------------|---------------|
|                   | Raw Material | Emitted Color    |                | TYP. (Mcd) |               |
| TY-100UR5M100-500 | AlGaInP      | Ultra Bright Red | Milky Diffused | 500        | 100°          |

### Absolute Maximum Ratings at TA=25°C

| Parameter                         | Symbol  | Maximum Rating      | Units |
|-----------------------------------|---------|---------------------|-------|
| Power Dissipation                 | PD      | 45                  | mW    |
| Peak Forward Current <sup>4</sup> | IFP     | 100                 | mA    |
| Forward Current                   | IF      | 20                  | mA    |
| Reverse Voltage                   | VR      | 5                   | V     |
| Capacitance                       | C       | 25                  | pF    |
| Operating/Storage Temperature     | TA/TSTG | -40°C to +85°C      |       |
| Lead Solder Temperature           | TSOL    | 260°C for 5 Seconds |       |

### Electrical / Optical Characteristics at TA=25°C

| Parameter                | Symbol           | TYP. | MAX. | Units | Test Condition |
|--------------------------|------------------|------|------|-------|----------------|
| Peak Wavelength          | $\lambda_{peak}$ | 627  | -    | nm    | IF=20mA        |
| Dominant Wavelength      | $\lambda_D$      | 620  | -    | nm    | IF=20mA        |
| Spectral Line Half-width | $\Delta\lambda$  | 20   | -    | nm    | IF=20mA        |
| Forward Voltage          | VF               | 1.90 | 2.25 | V     | IF=20mA        |
| Reverse Current          | IR               | -    | 10   | uA    | VR=5V          |

Notes:

1. All dimension are in millimeter (inches);
2. Tolerance is  $\pm 0.25\text{mm}(0.01")$  unless otherwise specified;
3. Not recommend to solder within 3mm from the resin;
4. 1/10 Duty Cycle, 0.1ms Pulse Width.