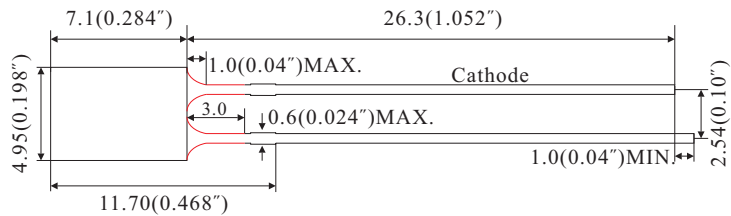
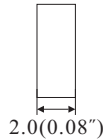




## PACKAGE DIMENSION

TY-522UR2D125-160



### Selection Guide

| Part No.          | Dice         |                  | Lens Color   | (If=20mA)  | Viewing Angle |
|-------------------|--------------|------------------|--------------|------------|---------------|
|                   | Raw Material | Emitted Color    |              | TYP. (Mcd) |               |
| TY-522UR2D125-160 | AlGaInP      | Ultra Bright Red | Red Diffused | 160        | 125°          |

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

| Parameter                         | Symbol  | Maximum Rating      | Units |
|-----------------------------------|---------|---------------------|-------|
| Power Dissipation                 | PD      | 78                  | mW    |
| Peak Forward Current <sup>4</sup> | IFP     | 100                 | mA    |
| Forward Current                   | IF      | 50                  | 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 3 Seconds |       |

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

| Parameter                | Symbol | TYP. | MAX. | Units | Test Condition |
|--------------------------|--------|------|------|-------|----------------|
| Peak Wavelength          | λpeak  | 629  | -    | nm    | IF=20mA        |
| Dominant Wavelength      | λD     | 619  | -    | nm    | IF=20mA        |
| Spectral Line Half-width | Δλ     | 20   | -    | nm    | IF=20mA        |
| Forward Voltage          | VF     | 2.05 | 2.40 | V     | IF=20mA        |
| Reverse Current          | IR     | -    | 10   | uA    | VR=5V          |

Notes:

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