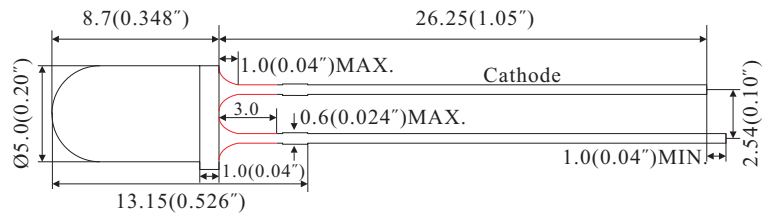




PACKAGE DIMENSION

TY-50UR3W15-4500



Selection Guide

| Part No. | Dice | | Lens Color | (If=20mA) | Viewing Angle |
|------------------|--------------|------------------|-------------|------------|---------------|
| | Raw Material | Emitted Color | | TYP. (Mcd) | |
| TY-50UR3W15-4500 | AlGaInP | Ultra Bright Red | Water Clear | 4500 | 15° |

Absolute Maximum Ratings at TA=25°C

| Parameter | Symbol | Maximum Rating | Units |
|-----------------------------------|---------|---------------------|-------|
| Power Dissipation | PD | 78 | mW |
| Peak Forward Current ⁴ | 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 5 Seconds | |

Electrical / Optical Characteristics at TA=25°C

| Parameter | Symbol | TYP. | MAX. | Units | Test Condition |
|--------------------------|------------------|------|------|-------|----------------|
| Peak Wavelength | λ_{peak} | 627 | - | nm | IF=20mA |
| Dominant Wavelength | λ_D | 620 | - | nm | IF=20mA |
| Spectral Line Half-width | $\Delta\lambda$ | 18 | - | nm | IF=20mA |
| Forward Voltage | VF | 1.95 | 2.30 | V | IF=20mA |
| Reverse Current | IR | - | 10 | uA | VR=5V |

Notes:

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