

## MT4750C-UBL

### Features

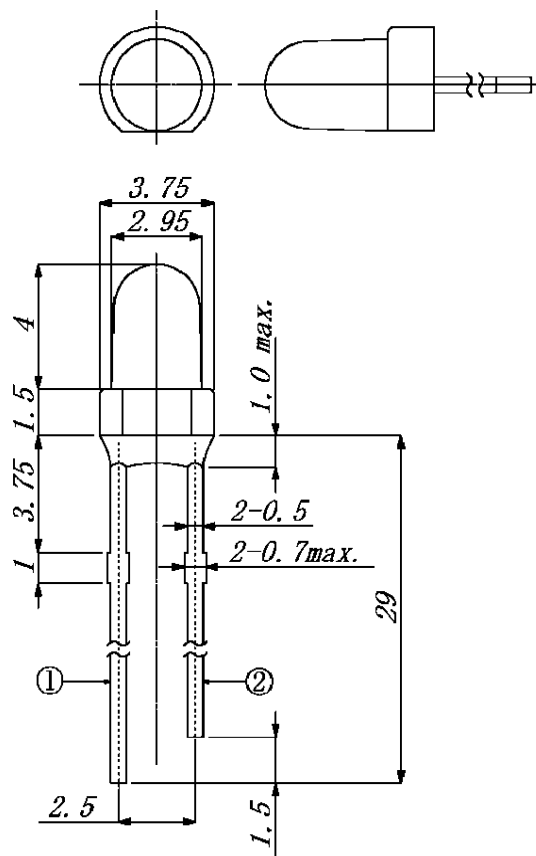
High Power Output  
High Reliability

### Applications

Optical Sensors  
Fiber Optic Communications  
Indicator

### Maximum Ratings (Ta=25°C)

| Characteristic         | Symbol           | Max.       | Test Condition  | Unit |
|------------------------|------------------|------------|-----------------|------|
| Forward Current        | I <sub>F</sub>   | 25         | —               | mA   |
| Pulsed Forward Current | I <sub>FP</sub>  | .10        | tw=10μs, T=10mS | A    |
| Reverse Voltage        | V <sub>R</sub>   | 5          | —               | V    |
| Power Dissipation      | P <sub>D</sub>   | 120.00     | —               | mW   |
| Operating Temperature  | T <sub>opr</sub> | -20 ~ +80  | —               | °C   |
| Storage Temperature    | T <sub>stg</sub> | -30 ~ +100 | —               | °C   |
| Junction Temperature   | T <sub>j</sub>   | 100        | —               | °C   |
| Soldering Temperature  | T <sub>sol</sub> | 260        | for 5 sec. max  | °C   |



① Anode

② Cathode

### Opto-Electrical Characteristics (Ta=25°C)

| Characteristic            | Symbol         | Test Condition       | Min | Typ    | Max  | Unit |
|---------------------------|----------------|----------------------|-----|--------|------|------|
| Forward Voltage           | V <sub>F</sub> | I <sub>F</sub> =20mA | —   | 3.60   | 4.20 | V    |
| Reverse Current           | I <sub>R</sub> | V <sub>R</sub> =5V   | —   | —      | 100  | μA   |
| Power Output              | P <sub>O</sub> | I <sub>F</sub> =20mA | —   | 6.00   | —    | mW   |
| Half Intensity Beam Angle | θ              | —                    | —   | ± 15°  | —    | deg. |
| Peak Wavelength           | λ <sub>p</sub> | I <sub>F</sub> =20mA | —   | 465    | —    | nm   |
| Dominant Wavelength       | λ <sub>d</sub> | I <sub>F</sub> =20mA | —   | 470    | —    | nm   |
| Spectral Line Half Width  | Δλ             | I <sub>F</sub> =20mA | —   | 28     | —    | nm   |
| Luminous Intensity        | I <sub>v</sub> | I <sub>F</sub> =20mA | —   | 750.00 | —    | mcd  |

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**MT4750C-UBL Graphs**

