

## MT4750-UBL

### Features

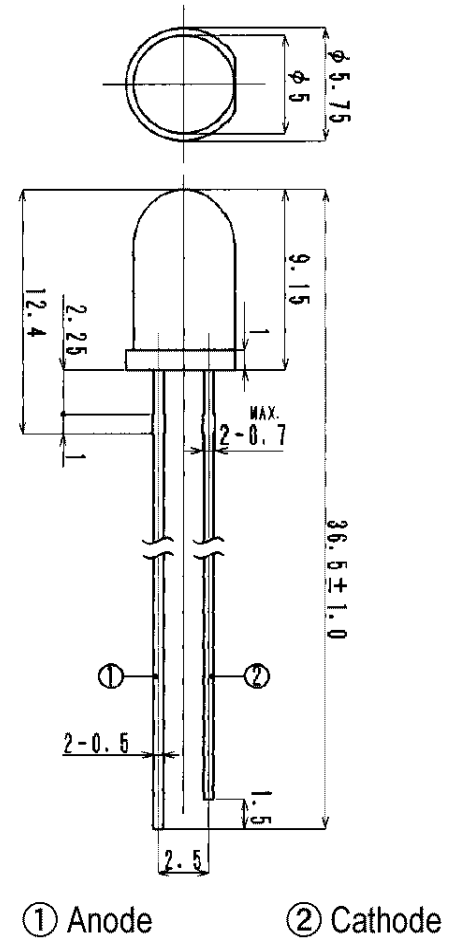
High Power Output  
High Reliability

### 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   |



### 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 | —   | 7.00    | —    | mW   |
| Half Intensity Beam Angle | θ              | —                    | —   | ± 7°    | —    | 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 | —   | 2500.00 | —    | mcd  |

### Company Headquarters

3 Northway Lane North  
Latham, New York 12110  
Toll Free: 800.984.5337  
Fax: 518.785.4725

### West Coast Sales Office

950 South Coast Drive, Suite 265  
Costa Mesa, California 92626  
Toll Free: 800.984.5337  
Fax: 714.850.9314

**MT4750-UBL Graphs**

