

### Peak Emission Wavelength: 660nm

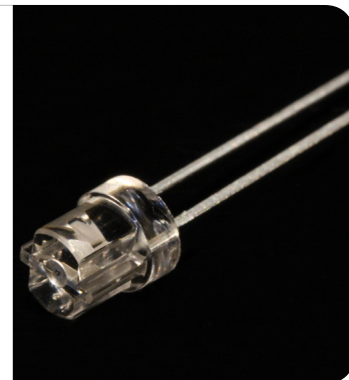
The MTE2066N3-UR is a red 5mm water clear emitter designed for applications requiring high brightness and high reliability in a wider angle package with straight leads.

#### FEATURES

- > High Luminous Intensity
- > High Reliability / High Power Output
- > Excellent Optical / Mechanical Axis Alignment
- > Wide Beam Angle

#### APPLICATIONS

- > Optical Sensing
- > Machine Vision
- > Bar Code Scanning / Edge Sensing
- > Fiber Optical Communications



### Absolute Maximum Ratings (Ta=25°C)

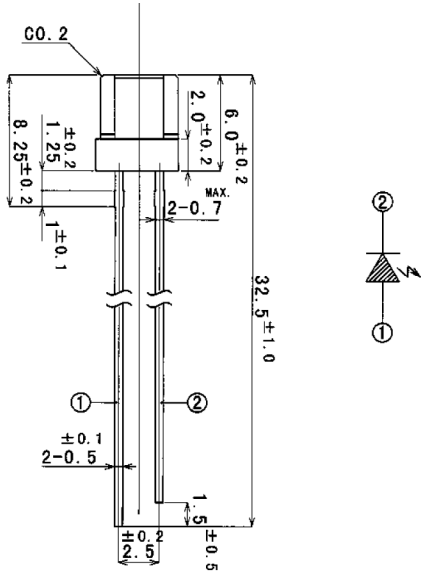


| ITEMS                        | SYMBOL | RATINGS    | UNIT |
|------------------------------|--------|------------|------|
| Forward Current (DC)         | IF     | 50         | mA   |
| Forward Current (Pulse)*1    | IFP    | 0.5        | A    |
| Reverse Voltage              | VR     | 5          | V    |
| Power Dissipation            | PD     | 120        | mW   |
| Operating Temperature Range  | Topr   | -20 ~ +80  | °C   |
| Storage Temperature Range    | Tstg   | -30 ~ +100 | °C   |
| Junction Temperature         | Tj     | 100        | °C   |
| Lead Soldering Temperature*2 | Tls    | 260        | °C   |

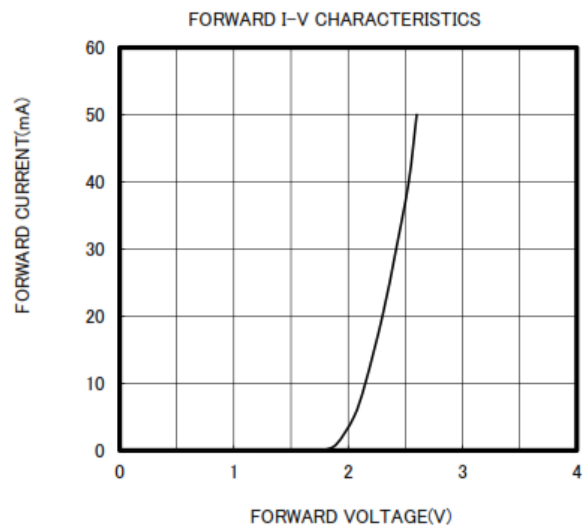
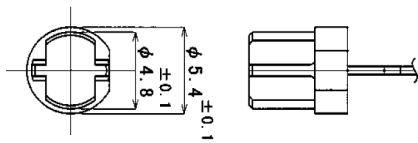
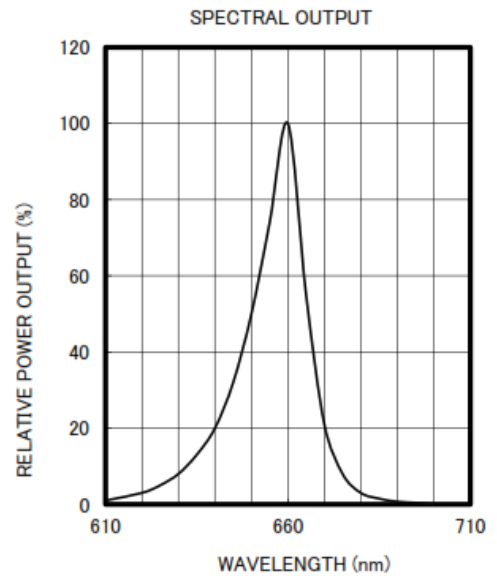
\*1: Tw=10μsec, T=10msec. \*2: Time 5 Sec max, Position: Up to 3mm from the body.

### Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS                     | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNIT |
|---------------------------|--------|------------|-----|-----|-----|------|
| Power Output              | PO     | IF=20mA    | --  | 8.0 | --  | mW   |
| Forward Voltage           | VF     | IF=20mA    | --  | 2.3 | --  | V    |
| Reverse Current           | IR     | VR=5V      | --  | --  | 100 | μA   |
| Peak Emission Wavelength  | λp     | IF=20mA    | --  | 660 | --  | nm   |
| Spectral Line Half Width  | Δλ     | IF=20mA    | --  | 15  | --  | nm   |
| Half Intensity Beam Angle | Θ      | IF=20mA    | --  | ±40 | --  | deg  |

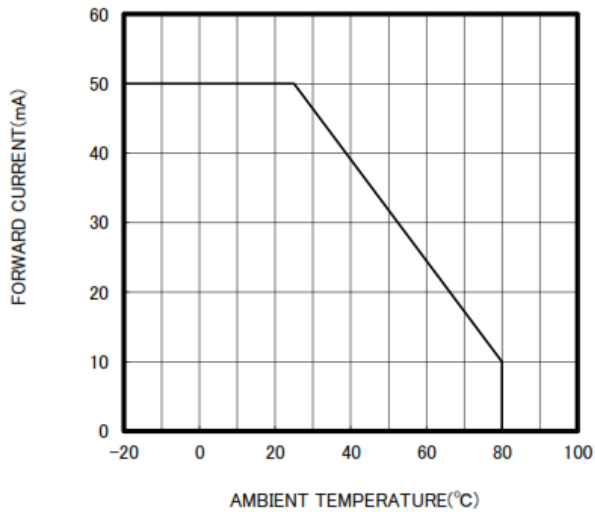


① Anode      ② Cathode

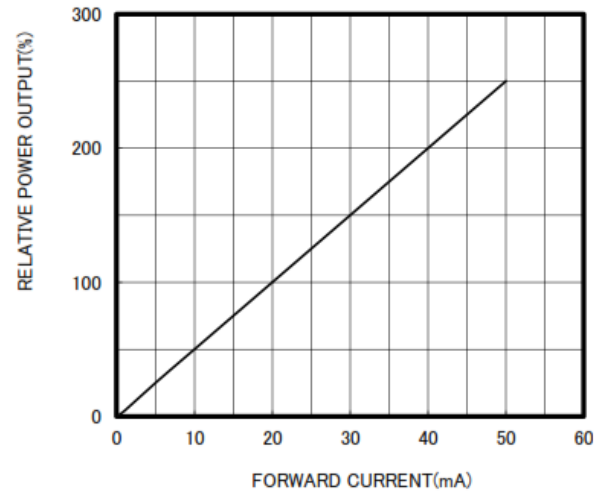


Unit: mm, Tolerance:  $\pm 0.2$

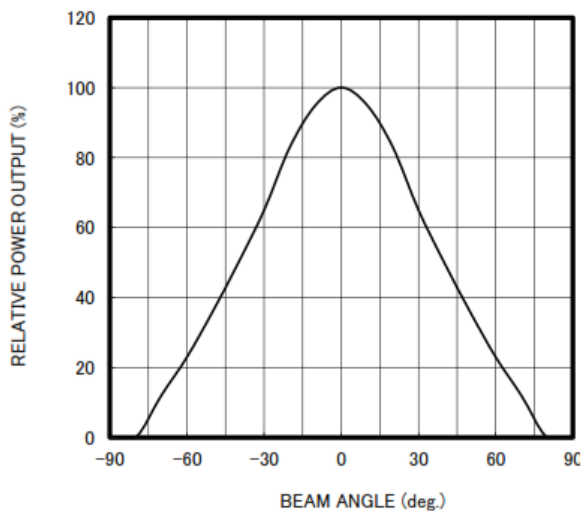
THERMAL DERATING CURVE



RELATIVE POWER vs FORWARD CURRENT



RADIATION PATTERN



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