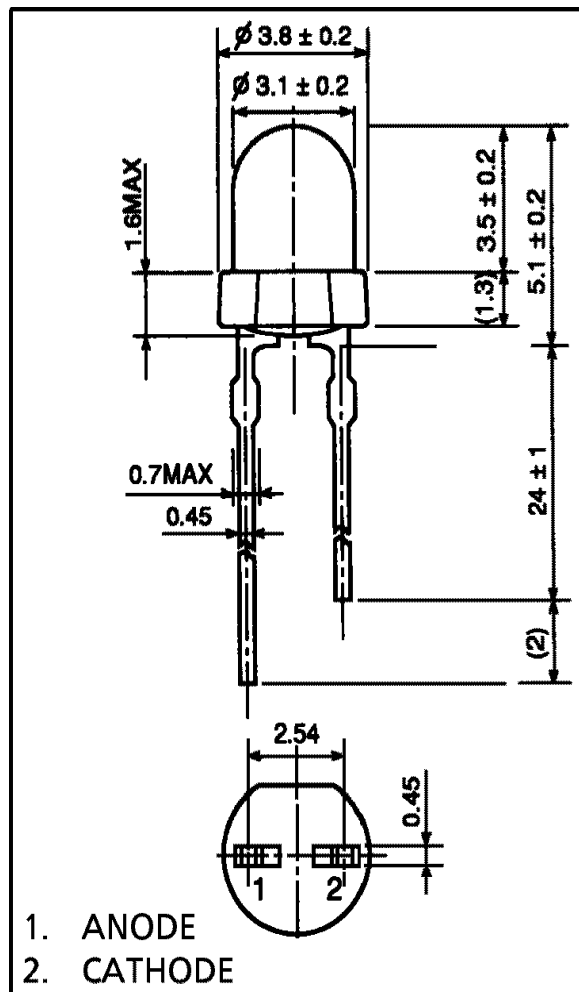


### Features

InGaAlP Technology  
All Plastic Mold Type  
Water Clear Lens  
3mm Package  
Excellent Low Current Light Output

### Applications

Backlight  
Indicator  
Switches  
Personal Equipment  
Decorative Lighting



### Series Line-Up

| Part Number | Color                     | Material |
|-------------|---------------------------|----------|
| TLOU262     | Ultra Bright Orange       | InGaAlP  |
| TLSU262     | Ultra High Efficiency Red | InGaAlP  |
| TLYU262     | Ultra Bright Yellow       | InGaAlP  |

### Maximum Ratings (Ta=25°C)

| Part Number | Forward Current<br>I <sub>F</sub> | Reverse Voltage<br>V <sub>R</sub> | Power Dissipation<br>P <sub>D</sub> | Operating Temperature<br>T <sub>opr</sub> | Storage Temperature<br>T <sub>stg</sub> |
|-------------|-----------------------------------|-----------------------------------|-------------------------------------|---|---|
| TLOU262     | 30                                | 4                                 | 72.00                               | -30 ~ 85                                  | -40 ~ 120                               |
| TLSU262     | 30                                | 4                                 | 72.00                               | -30 ~ 85                                  | -40 ~ 120                               |
| TLYU262     | 30                                | 4                                 | 75.00                               | -30 ~ 85                                  | -40 ~ 120                               |
| Unit        | mA                                | V                                 | mW                                  | °C  | °C                                      |

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Long Beach, CA 90802  
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Fax: 562.628.5572

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

| Part Number | PWL nm<br>$\lambda_P$ | Material | View Angle<br>$2\theta_{1/2}$ | Luminous Intensity<br>$I_v$ |        |      |      | Forward Voltage<br>$V_F$ |      |      |      | Rev Current<br>$I_R$ |      |
|-------------|-----------------------|----------|-------------------------------|-----------------------------|--------|------|------|--------------------------|------|------|------|----------------------|------|
|             |                       |          |                               | min.                        | typ.   | max. | IF @ | min.                     | typ. | max. | IF @ | max.                 | VR @ |
| TLOU262     | 612                   | InGaAlP  | 60°                           | 47.60                       | 300.00 | –    | 20mA | –                        | 2.00 | 2.40 | 20mA | 50                   | 4V   |
| TLSU262     | 636                   | InGaAlP  | 60°                           | 47.60                       | 170.00 | –    | 20mA | –                        | 2.00 | 2.40 | 20mA | 50                   | 4V   |
| TLYU262     | 590                   | InGaAlP  | 60°                           | 47.60                       | 150.00 | –    | 20mA | –                        | 2.10 | 2.50 | 20mA | 50                   | 4V   |
| –           | nm                    | –        | deg                           | mcd                         |        |      |      | V                        |      |      |      | mA                   | –    |

### Precautions

- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: up to 2 mm from the body of the device).
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light. If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.

### NOTICE:

- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.
- In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
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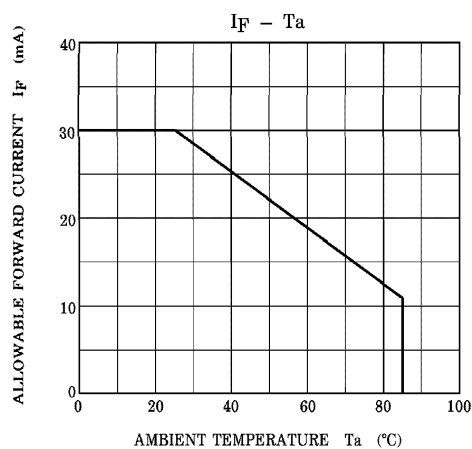
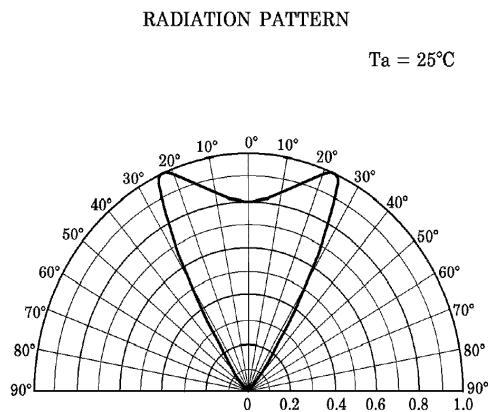
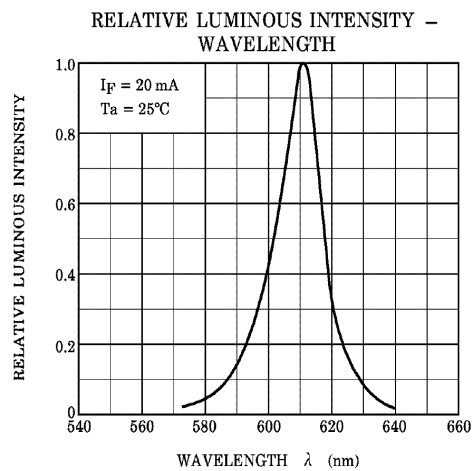
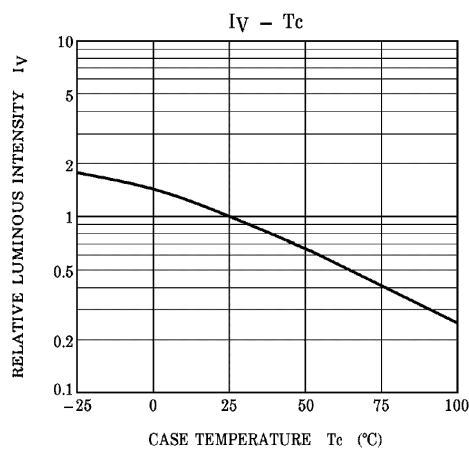
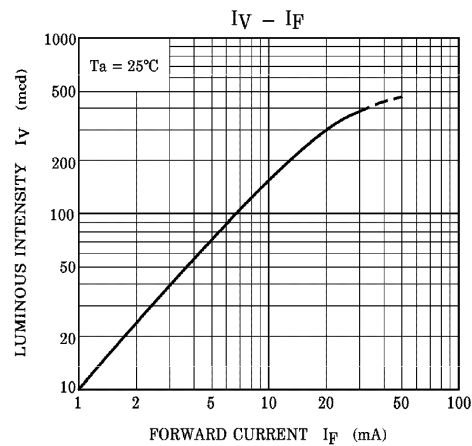
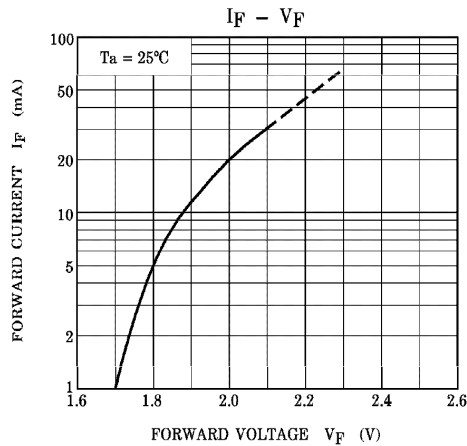


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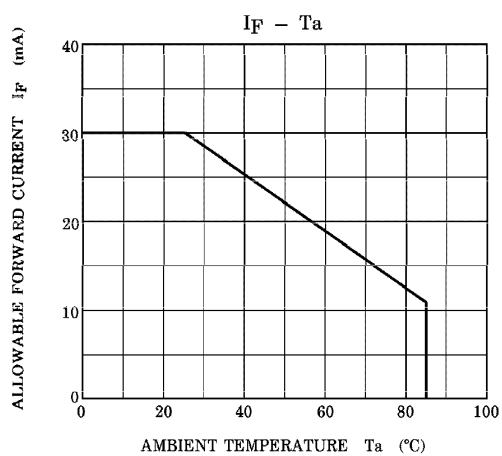
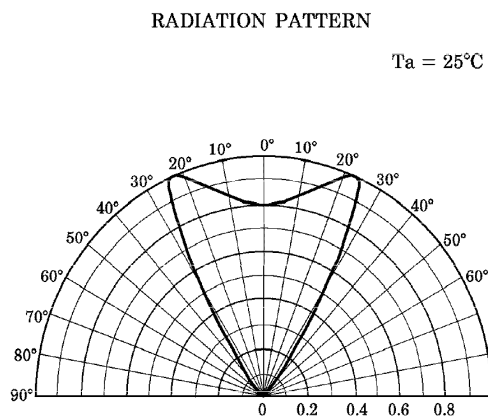
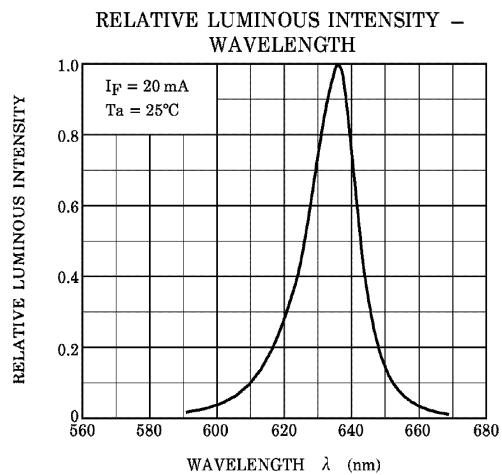
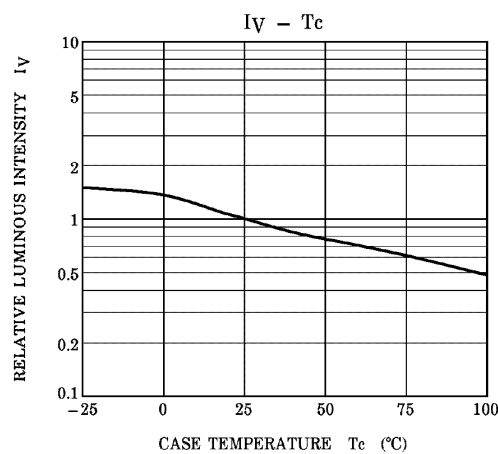
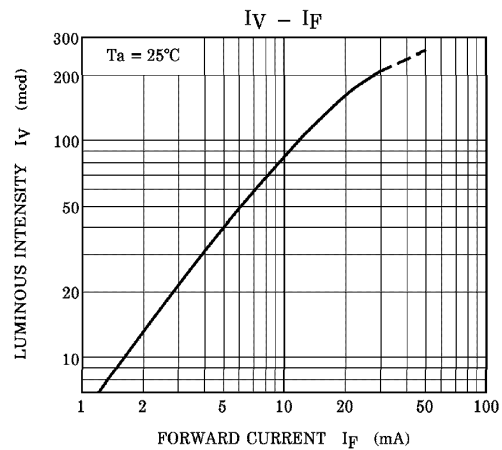
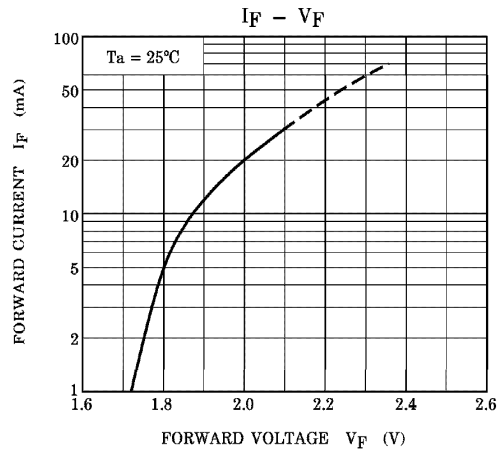
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### TLOU262 Graphs



### TLxU262 Graphs



### TLYU262 Graphs

