

# Square Type

## □ 5.0 mm × 2.0 mm Series

| Conventional Part No. | Global Part No. | Lighting Color |
|-----------------------|-----------------|----------------|
| LN242RPH              | LNG242RFR       | Red            |
| LN342GPH              | LNG342GFG       | Green          |
| LN442YPH              | LNG442YFX       | Amber          |
| LN842RPH              | LNG842RFD       | Orange         |

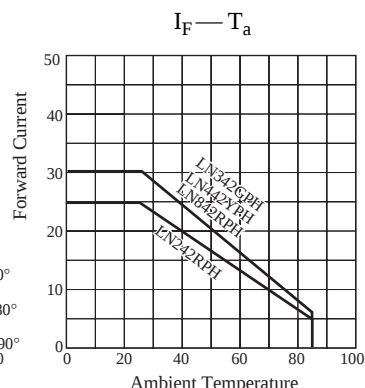
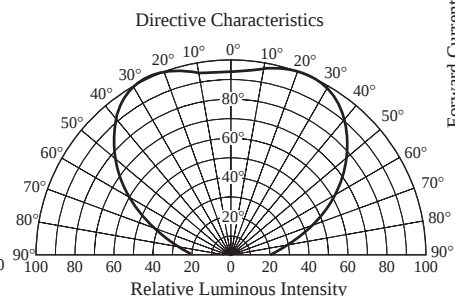
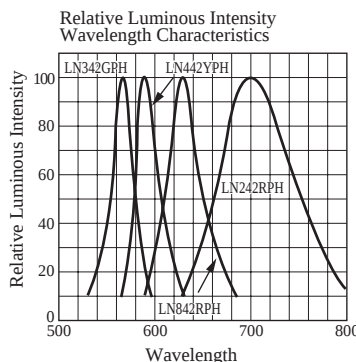
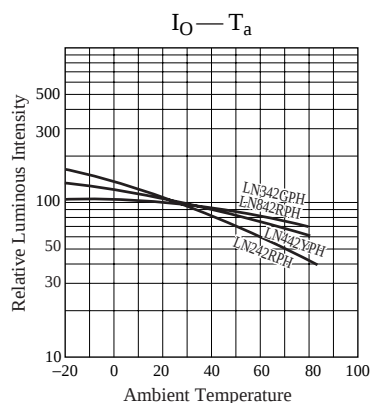
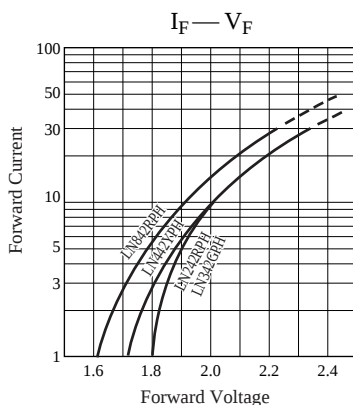
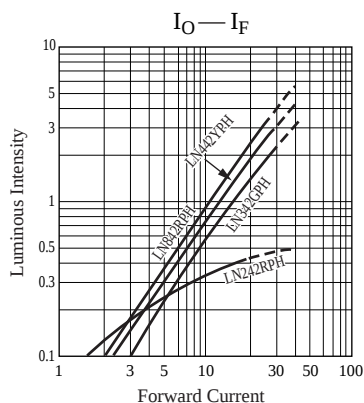
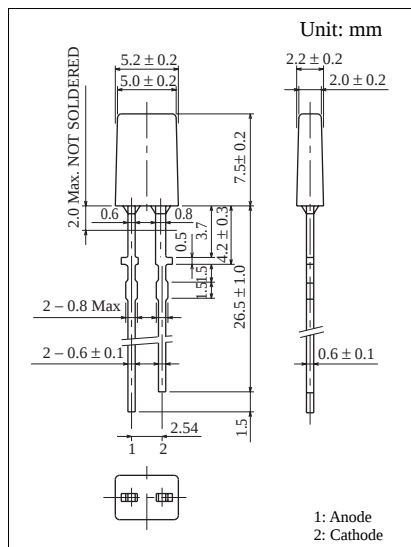
### ■ Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

| Lighting Color | $P_D(\text{mW})$ | $I_F(\text{mA})$ | $I_{FP}(\text{mA})^*$ | $V_R(\text{V})$ | $T_{opr}(^\circ\text{C})$ | $T_{stg}(^\circ\text{C})$ |
|----------------|------------------|------------------|-----------------------|-----------------|---------------------------|---------------------------|
| Red            | 70               | 25               | 150                   | 4               | $-25 \sim +85$            | $-30 \sim +100$           |
| Green          | 90               | 30               | 150                   | 4               | $-25 \sim +85$            | $-30 \sim +100$           |
| Amber          | 90               | 30               | 150                   | 4               | $-25 \sim +85$            | $-30 \sim +100$           |
| Orange         | 90               | 30               | 150                   | 3               | $-25 \sim +85$            | $-30 \sim +100$           |

Pulse width 1 msec. The condition of  $I_{FP}$  is duty 10%, Pulse width 1 msec

### ■ Electro-Optical Characteristics ( $T_a = 25^\circ\text{C}$ )

| Conventional Part No. | Lighting Color | Lens Color     | $I_O$ |      | $I_F$ | $V_F$ |     | $\lambda_P$ | $\Delta\lambda$ | $I_F$ | $I_R$         |       |
|-----------------------|----------------|----------------|-------|------|-------|-------|-----|-------------|-----------------|-------|---------------|-------|
|                       |                |                | Typ   | Min  |       | Typ   | Max |             |                 |       | Max           | $V_R$ |
| LN242RPH              | Red            | Red Diffused   | 0.4   | 0.15 | 15    | 2.2   | 2.8 | 700         | 100             | 20    | 5             | 4     |
| LN342GPH              | Green          | Green Diffused | 1.5   | 0.50 | 20    | 2.2   | 2.8 | 565         | 30              | 20    | 10            | 4     |
| LN442YPH              | Amber          | Amber Diffused | 2.0   | 0.75 | 20    | 2.2   | 2.8 | 590         | 30              | 20    | 10            | 4     |
| LN842RPH              | Orange         | Red Diffused   | 2.5   | 1.00 | 20    | 2.1   | 2.8 | 630         | 40              | 20    | 10            | 3     |
| Unit                  | —              | —              | mcd   | mcd  | mA    | V     | V   | nm          | nm              | mA    | $\mu\text{A}$ | V     |



# Caution for Safety

 **DANGER**

Gallium arsenide material (GaAs) is used in this product.

Therefore, do not burn, destroy, cut, crush, or chemically decompose the product, since gallium arsenide material in powder or vapor form is harmful to human health.

Observe the relevant laws and regulations when disposing of the products. Do not mix them with ordinary industrial waste or household refuse when disposing of GaAs-containing products.

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