

# Square Type

## □ 1.0 mm × 4.0 mm Series

| Conventional Part No. | Global Part No. | Lighting Color |
|-----------------------|-----------------|----------------|
| LN233RPH              | LNG233RFR       | Red            |
| LN333GPH              | LNG333GFG       | Green          |
| LN433YPH              | LNG433YFX       | Amber          |
| LN833WPH              | LNG833WFD       | Orange         |

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

| Lighting Color | $P_D(\text{mW})$ | $I_F(\text{mA})$ | $I_{FP}(\text{mA})^*$ | $V_R(\text{V})$ | $T_{opr}(\text{C}^\circ)$ | $T_{stg}(\text{C}^\circ)$ |
|----------------|------------------|------------------|-----------------------|-----------------|---------------------------|---------------------------|
| 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               | $-25 \sim +85$            | $-30 \sim +100$           |

$I_{FP}$  の条件は  $\text{duty } 10\%$  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           | $V_R$ |
| LN233RPH              | Red            | Red Diffused   | 0.5   | 0.10 | 15    | 2.2   | 2.8 | 700         | 100             | 20    | 5             | 4     |
| LN333GPH              | Green          | Green Diffused | 2.0   | 0.75 | 20    | 2.2   | 2.8 | 565         | 30              | 20    | 10            | 4     |
| LN433YPH              | Amber          | Amber Diffused | 1.5   | 0.50 | 20    | 2.2   | 2.8 | 590         | 30              | 20    | 10            | 4     |
| LN833WPH              | Orange         | White Diffused | 2.0   | 0.75 | 20    | 2.1   | 2.8 | 630         | 40              | 20    | 10            | 3     |
| Unit                  | —              | —              | mcd   | mcd  | mA    | V     | V   | nm          | nm              | mA    | $\mu\text{A}$ | V     |

