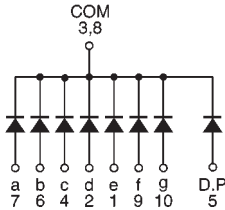


● Internal circuit schematic (example of common cathode)



● Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

| Parameter | Symbol | Red | Orange | Yellow | Green | Unit |
|-----------------------|--------------------|---------------|---------------|---------------|---------------|------------------|
| | | LA-801VF / VP | LA-801DF / DP | LA-801YF / YP | LA-801MF / MP | |
| Power dissipation | P_D | 480 | 480 | 480 | 480 | mW |
| Power dissipation | P_D / seg | 60 | 60 | 60 | 60 | mW |
| Forward current | I_F | 20 | 20 | 20 | 20 | mA |
| Peak forward current | I_{FP} | 60* | 60* | 60* | 60* | mA |
| Reverse voltage | V_R | 3 | 3 | 3 | 3 | V |
| Operating temperature | T_{opr} | -25~+75 | | | | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -30~+85 | | | | $^\circ\text{C}$ |

* Pulse width 1ms duty 1 / 5

● Electrical and optical characteristics ($T_a = 25^\circ\text{C}$)

| Parameter | Symbol | Conditions | Red | | | Orange | | | Yellow | | | Green | | | Unit |
|--------------------------|-----------------|-------------------|------|------|------|--------|------|------|--------|------|------|-------|------|------|---------------|
| | | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| Forward voltage | V_F | $I_F=10\text{mA}$ | — | 2.0 | 2.8 | — | 2.0 | 2.8 | — | 2.1 | 2.8 | — | 2.1 | 2.8 | V |
| Reverse current | I_R | $V_R=3\text{V}$ | — | — | 100 | — | — | 100 | — | — | 100 | — | — | 100 | μA |
| Peak wavelength | λ_P | $I_F=10\text{mA}$ | — | 650 | — | — | 610 | — | — | 585 | — | — | 563 | — | nm |
| Spectral line half width | $\Delta\lambda$ | $I_F=10\text{mA}$ | — | 40 | — | — | 40 | — | — | 40 | — | — | 40 | — | nm |

Ⓢ Not designed for radiation resistance.

● Luminous intensity

| Color | λ_P | Type | Min. | Typ. | Max. | Unit |
|--------|-------------|----------|------|------|------|------|
| Red | 650 | LA-801VF | 3.6 | 10 | — | mcd |
| | | LA-801VP | | | | |
| Orange | 610 | LA-801DF | 3.6 | 10 | — | mcd |
| | | LA-801DP | | | | |
| Yellow | 585 | LA-801YF | 2.2 | 6.3 | — | mcd |
| | | LA-801YP | | | | |
| Green | 563 | LA-801MF | 3.6 | 10 | — | mcd |
| | | LA-801MP | | | | |

Note: Measured at $I_F = 10\text{mA}$