

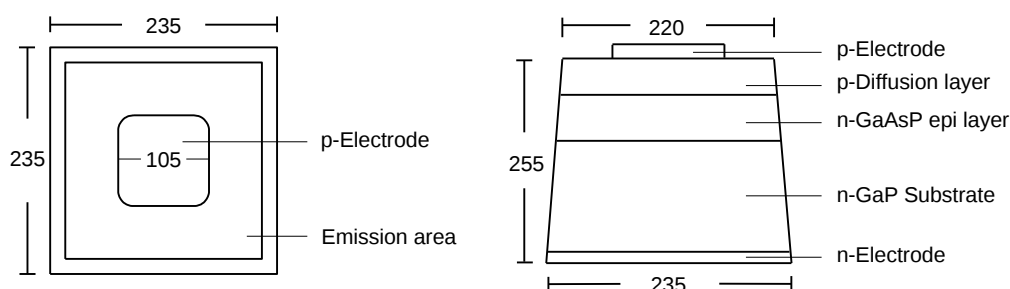
### ■ Features :

- GaAsP/GaP Epi Wafer

### ■ Typical Applications :

- Lamp
- SMD
- Display

### ■ Outline Dimensions : (Unit: $\mu\text{m}$ )



### ■ Physical Structure :

|                   |                       |                                       |
|-------------------|-----------------------|---------------------------------------|
| Chip dimension    | Chip size             | 235 $\mu\text{m}$ x 235 $\mu\text{m}$ |
|                   | Thickness             | 255 $\mu\text{m}$                     |
|                   | Emission area         | 220 $\mu\text{m}$                     |
|                   | Bonding pad           | 105 $\mu\text{m}$                     |
| Electrode         | Top: P (anode)        | Aluminum (Gold optional)              |
|                   | Backside: N (cathode) | Gold alloy                            |
| Surface condition | Not frosted           |                                       |

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

| Parameter                     | Symbol          | Condition             | Min. | Typ. | Max. | Unit          |
|-------------------------------|-----------------|-----------------------|------|------|------|---------------|
| Forward Voltage               | $V_F$           | $I_F = 20 \text{ mA}$ | -    | 2.10 | 2.60 | V             |
| Reverse Current               | $I_R$           | $V_R = 5 \text{ V}$   | -    | -    | 10   | $\mu\text{A}$ |
| Wavelength                    | $\lambda_P$     | $I_F = 20 \text{ mA}$ | -    | 589  | -    | nm            |
|                               | Hue             |                       | -    | 590  | -    |               |
| Spectral width at half height | $\Delta\lambda$ | $I_F = 20 \text{ mA}$ | -    | 35   | -    | nm            |
| Luminous Intensity            | $I_v$           | $I_F = 20 \text{ mA}$ | 3.0  | -    | -    | mcd           |

## ■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

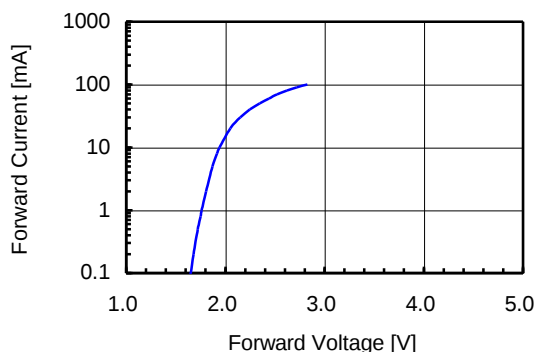


Fig 2. Relative Intensity vs. Forward Current

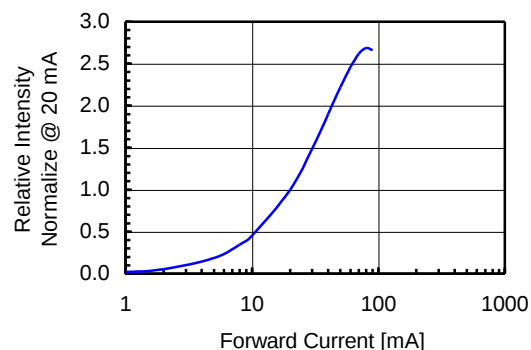


Fig 3. Forward Voltage vs. Temperature

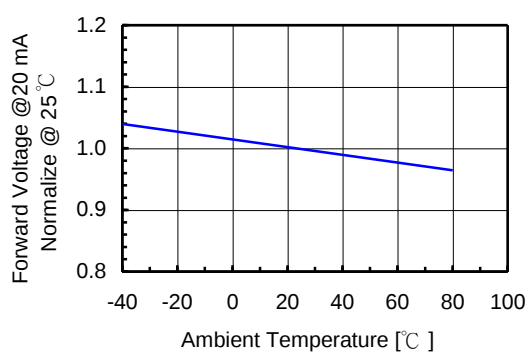


Fig 4. Relative Intensity vs. Temperature

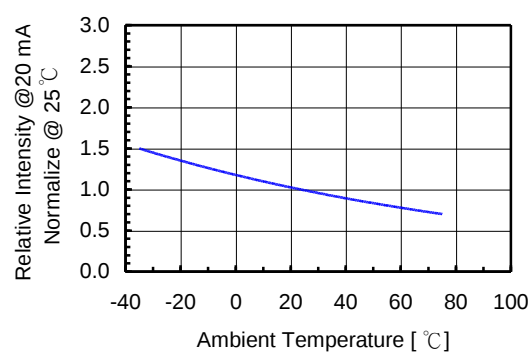


Fig 5. Relative Intensity vs. Wavelength

