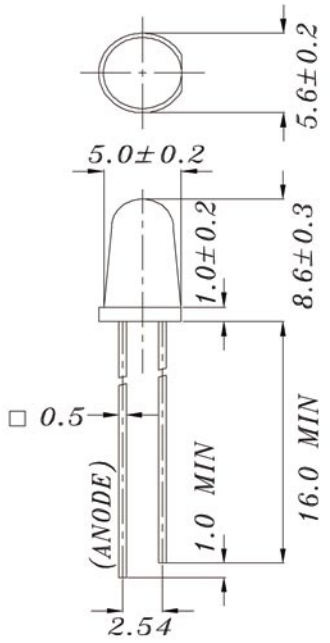
Weight: 0.31g Unit: mm




# AND180HYP

## AlGaInP High Brightness Yellow Light Emission
## T-1 3/4 Package (5mm)

## Features

- Peak wavelength (λp = 590 nm) high bright emission
- All plastic mold type, clear colorless lens
- Low drive current: 1 to 20 mA DC
- Excellent On-Off contrast ratio
- Fast response time, capable of pulse operation
- High power luminous intensity
- Suitable for Outdoor Message Signboards
- High reliability, storage temperature -40 to +100ºC
- **RoHS compliant**

### Maximum Ratings (Ta - 25 ºC)

| Characteristic | Symbol | Rating | Unit |
|---|---|---|---|
| Forward Current | $I_F$ | 50 | mA |
| Reverse Voltage | $V_R$ | 5 | V |
| Power Dissipation | $P_D$ | 125 | mW |
| Operating Temperature Range | $T_{OPR}$ | -40 to 85 | ºC |
| Storage Temperature Range | $T_{STG}$ | -40 to 100 | ºC |

### Electro-Optical Characteristics (Ta = 25ºC)

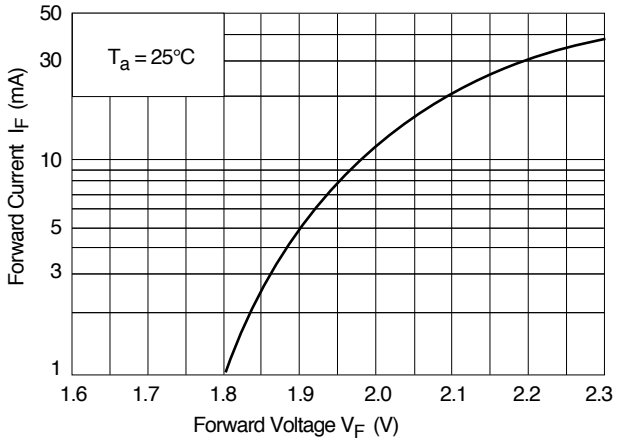
| Item | Symbol | Test Condition | Minimum | Typical | Maxiumum | Unit |
|---|---|---|---|---|---|---|
| Forward Voltage | $V_F$ | $I_F$ = 20 mA | – | 2.0 | 2.8 | V |
| Reverse Current | $I_R$ | $V_R$ = 4 V | – | – | 10 | μA |
| Luminous Intensity | $I_V$ | $I_F$ = 20 mA | 2,500 | 4,000 | 8.100 | mcd |
| Peak Emission Wavelength | λP | $I_F$ = 20 mA | – | 590 | – | nm |
| Spectral Line Half Width | Δλ | $I_F$ = 20 mA | – | 15 | – | nm |
| Dominant Wavelength | λd | $I_F$ = 20 mA | – | 591 | – | nm |
| Full Viewing Angle | θ | $I_V$ = 1/2 Peak | – | 6 | – | degree |

**Precaution**
**Please be careful of the following:**

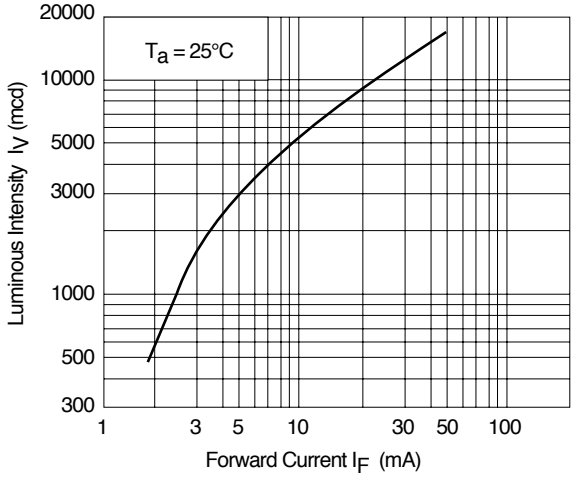
1. Dip soldering temperature: 260°C max
   Soldering time: 5 sec. max
   Soldering portion of lead: up to 1.6 mm from the body of the device
2. The lead can be formed up to 5 mm from the body of the device without forming stress.
   Soldering should be performed after the lead forming.

Product specifications contained herein may be changed without prior notice.

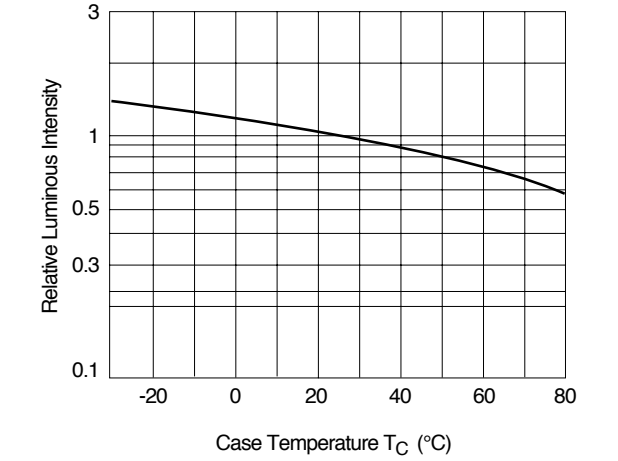
**$I_F - V_F$**



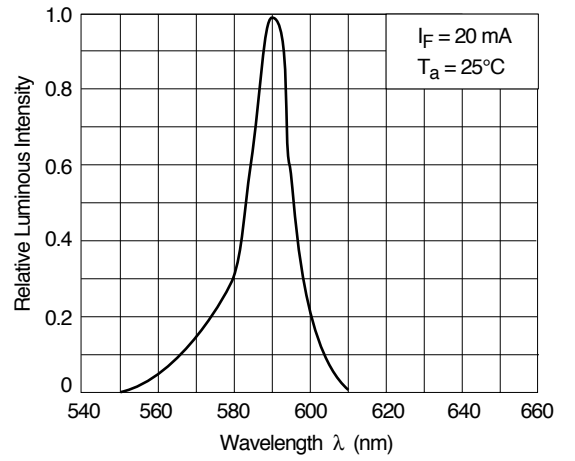

**$I_V - I_F$**



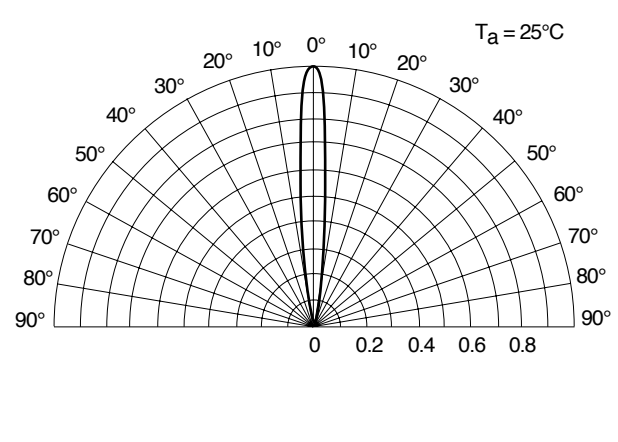

**$I_V - T_C$**




**Relative Luminous Intensity – Wavelength**




**Radiation Pattern**




**$I_F - T_a$**

