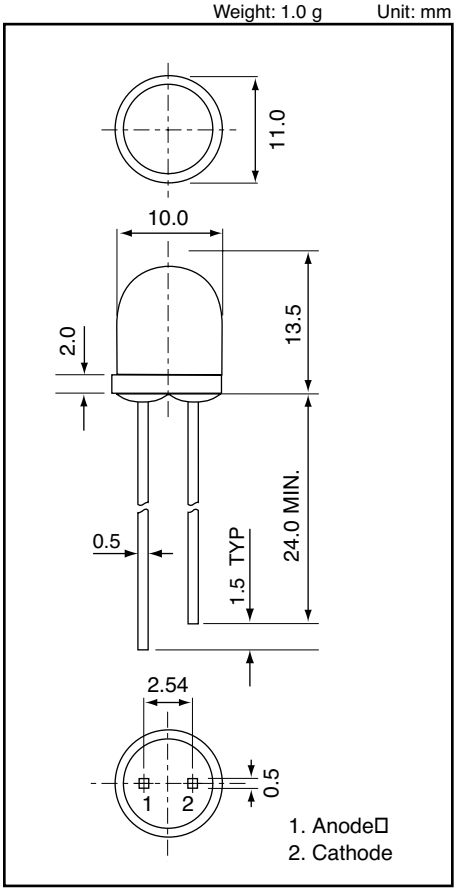
Weight: 1.0 g Unit: mm



AND190HGP

InGaAlP High Brightness Green Light Emission T-3 Package (10 mm)

Features

- New emission material (InGaAlP) green LED
- Peak wavelength (λp = 574 nm) high bright emission
- All plastic mold type, clear colorless lens
- Low drive current, (forward current = 2 to 20 mA)
- Excellent On-Off contrast ratio
- Fast response time, capable of pulse operation
- High power luminous intensity
- Suitable for Outdoor Message Signboards
- **RoHS Compliant**

Maximum Ratings (T_a = 25°C)

Characteristics	Symbol	Rating	Unit
Forward Current	I_F	30	mA
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	125	mW
Operating Temperature Range	T_{Opr}	-25 to 85	°C
Storage Temperature Range	T_{Stg}	-25 to 100	°C

Electro-Optical Characteristics (T_a = 25°C)

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F = 20 mA	–	2.1	2.8	V
Reverse Current	I_R	V_R = 4 V	–	–	50	μA
Luminous Intensity	I_V	I_F = 20 mA	1,200	2,000	–	mcd
Peak Emission Wavelength	I_P	I_F = 20 mA	–	574	–	nm
Spectral Line Half Width	Δλ	I_F = 20 mA	–	13	–	nm
Dominant Wavelength	λd	I_F = 20 mA	–	571	–	nm
Full Viewing Angle	θ	I_V = 1/2 Peak	–	8	–	degree

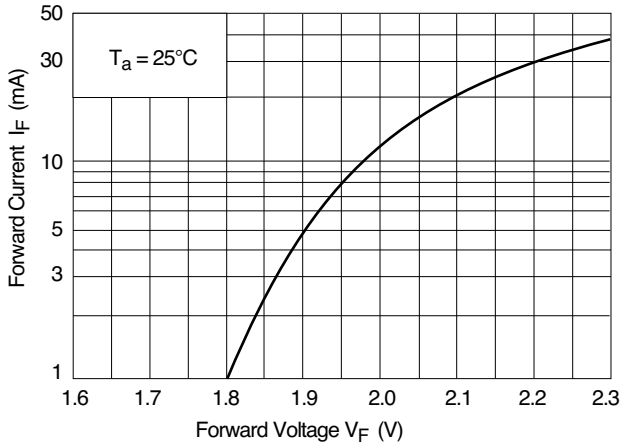
Precaution

Please be careful of the following:

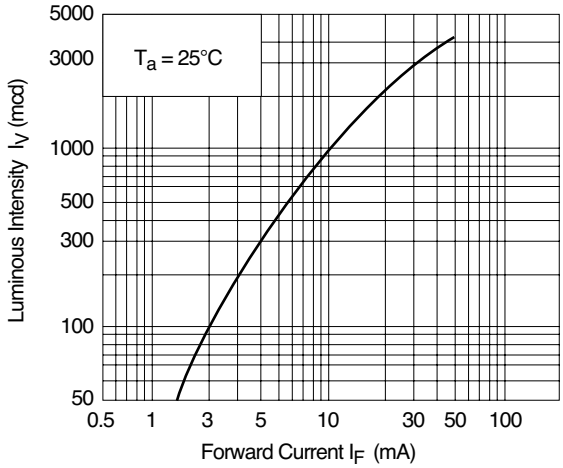
1. Soldering temperature: 260°C max
   Soldering time: 5 sec. max
   Soldering portion of lead: up to 1.6 mm from the body of the device
2. The lead can be formed up to 5 mm from the body of the device without forming stress.
   Soldering should be performed after the lead forming.

Product specifications contained herein may be changed without prior notice.
It is therefore advisable to contact Purdy Electronics before proceeding with the design of equipment incorporating this product.

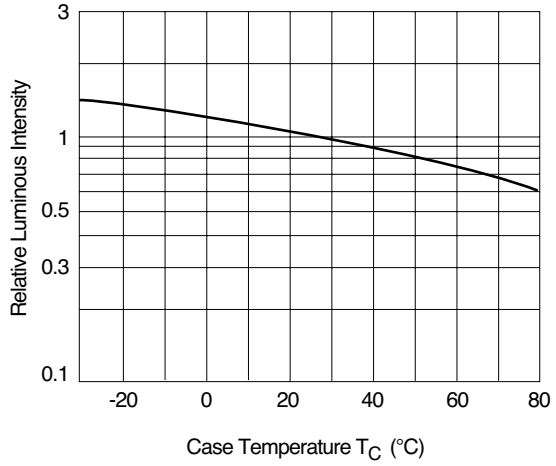
$I_F - V_F$



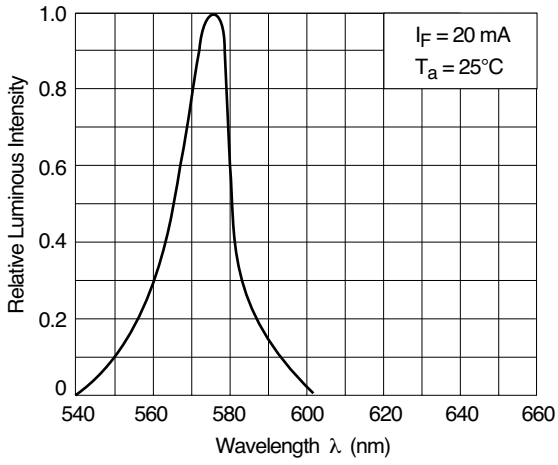
$I_V - I_F$



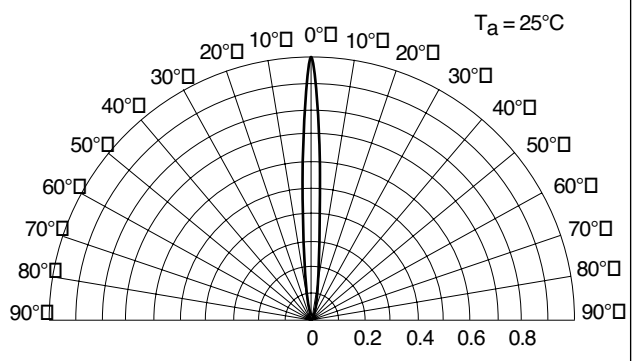
$I_V - T_C$



Relative Luminous Intensity – Wavelength



Radiation Pattern



$I_F - T_a$

