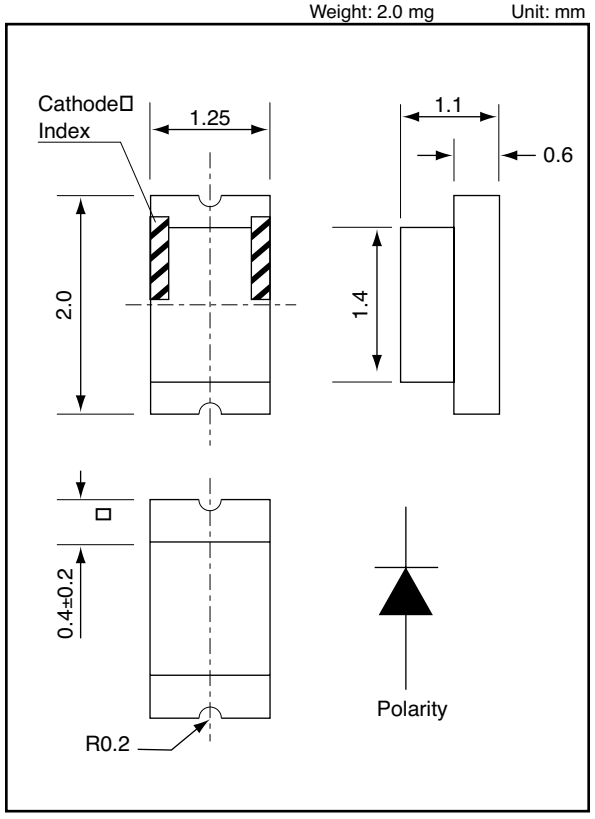
Weight: 2.0 mg Unit: mm



AND4GA

GaP Ultra Bright Green Light Emission Surface Mount Package

Features

- Small package size
- 2.0 (l) x 1.25 (w) x 1.1 (h) size
- Suitable for DIP and REFLOW soldering
- Recommended Forward Current: 10 mA
- **RoHS Compliant**

Maximum Ratings (T_a = 25°C)

Characteristics	Symbol	Rating	Unit
Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	100	mW
Operating Temperature Range	T_{Opr}	-40 to 85	°C
Storage Temperature Range	T_{Stg}	-40to 90	°C

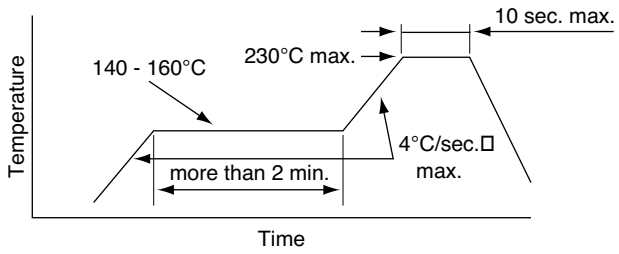
Electro-Optical Characteristics (T_a = 25°C)

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F = 20 mA	–	2.1	2.4	V
Reverse Current	I_R	V_R = 5 V	–	–	10	μA
Luminous Intensity	I_V	I_F = 20 mA	8.0	15	–	mcd
Peak Emission Wavelength	I_P	I_F = 20 mA	–	570	–	nm
Spectral Line Half Width	$\Delta\lambda$	I_F = 20 mA	–	30	–	nm
Dominant Wavelength	λd	I_F = 20 mA	–	571	–	nm
Full Viewing Angle	θ	I_V = 1/2 Peak	–	140	–	degree

Precaution

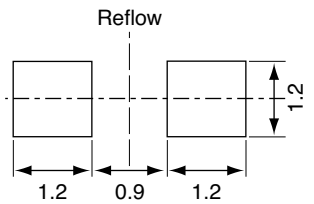
Please be careful of the following:

1. Manual soldering: maximum temperature of iron tip: 260°C max.
   Soldering time: within 5 sec. per solder-land
   Soldering portion of lead: up to 1.6 mm from the body of the device
2. Reflow solder: recommended condition is as follows:



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.

The following soldering patterns are recommended for reflow soldering



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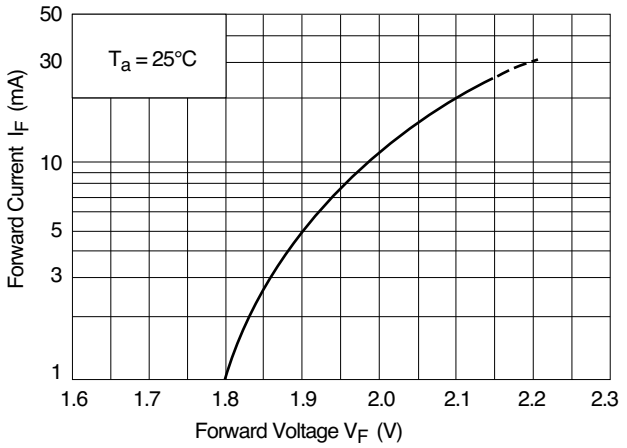
www.purdyelectronics.com

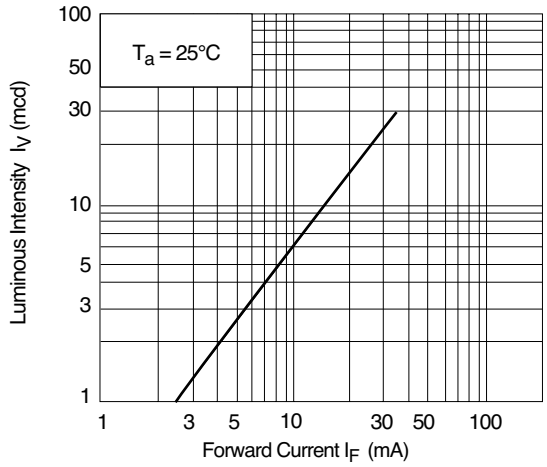
AND4GA

GaP Ultra Bright Green Light Emission — **Ultra Bright LED Lamps: Type 2**

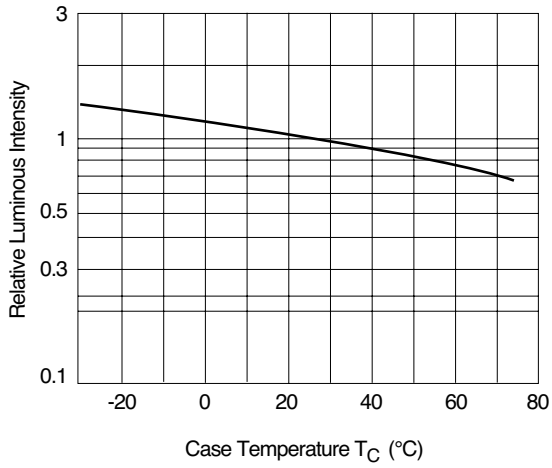
$I_F - V_F$



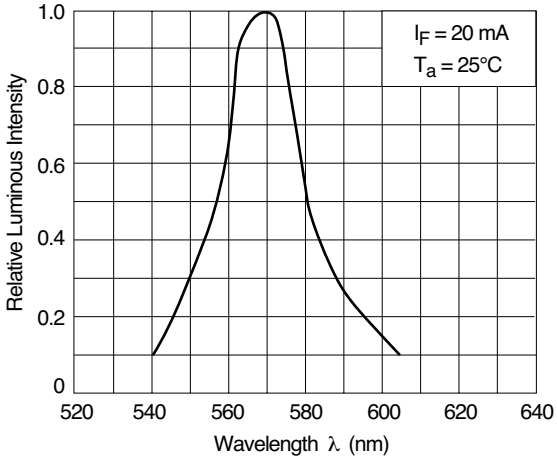
$I_{V□} - I_F$



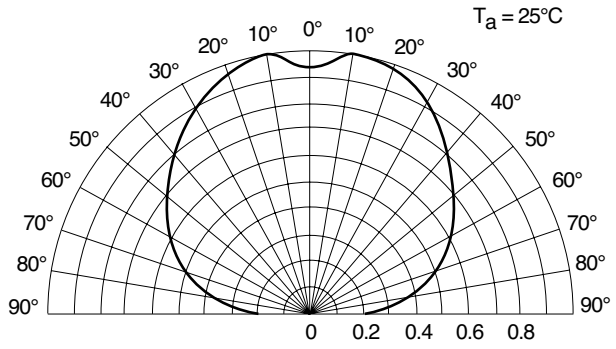
$I_V - T_C$



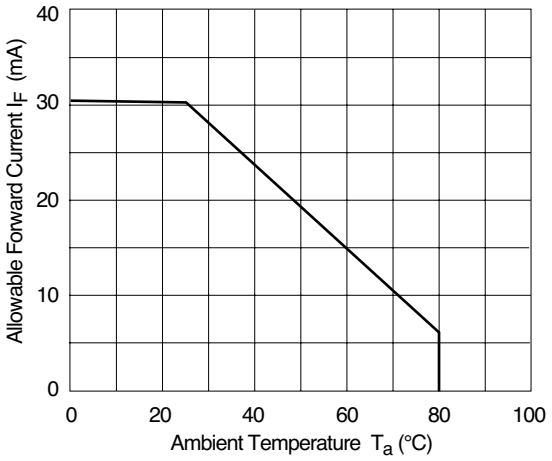
Relative Luminous Intensity — Wavelength



Radiation Pattern



$I_F - T_a$



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7/18/07