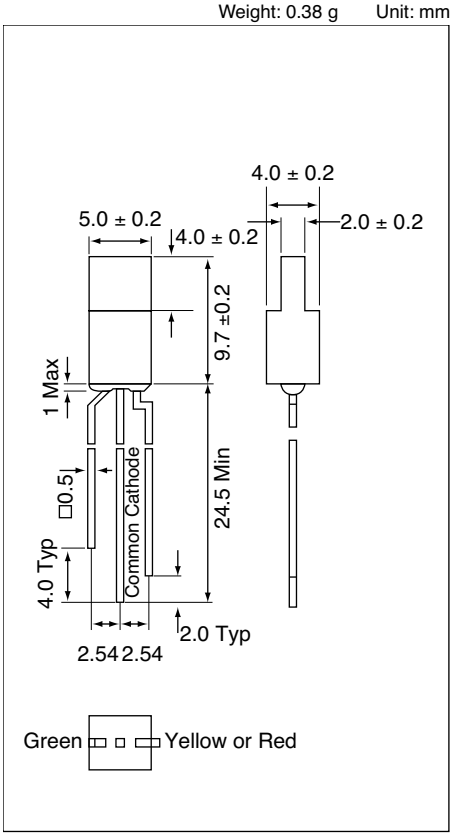
Weight: 0.38 g Unit: mm



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.

AND208YGA

Dual Color
2mm x 5mm Rectangular

Features

- All plastic mold type
- Low drive current, (forward current = 10 – 15 mA)
- Fast response time, capable of pulse operation
- Viewing Angle: 110°
- **RoHS Compliant**

Optical Characteristics (T = 25°C)

Part Number	Source	Color		Lens Desc.	Luminous Intensity @ 20 mA (mcd)	
		Emitting	Lens		Min.	Typ.
AND208YGA	GaAsP/GaP	Yellow	White	Diffused	8	14
	GaP	Green	White	Diffused	8	14

Absolute Maximum Ratings (T_A = 25°C)

Characteristics	Symbol	Rating		Unit
		GaP (Green)	GaAsP/GaP (Yellow)	
Forward Current	I_F	25	30	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	105	105	Total Package
Operating Temperature	T_{Opr}	-40 to +85		°C
Storage Temperature Range	T_{Stg}	-40 to +85		°C

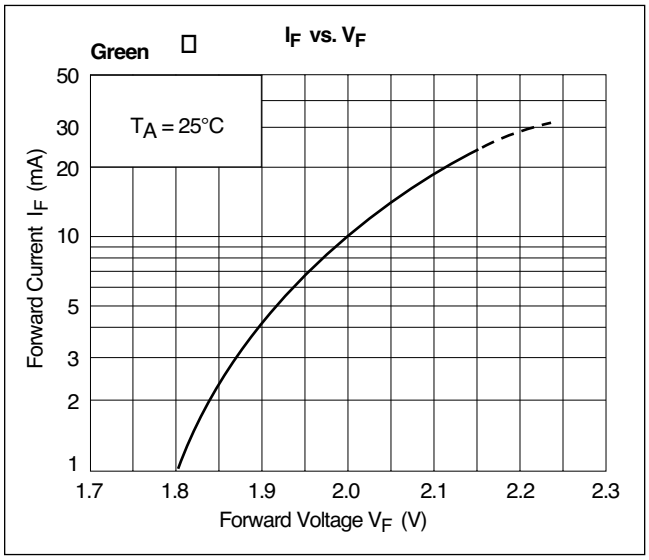
Electro-Optical Characteristics (T_A = 25°C)

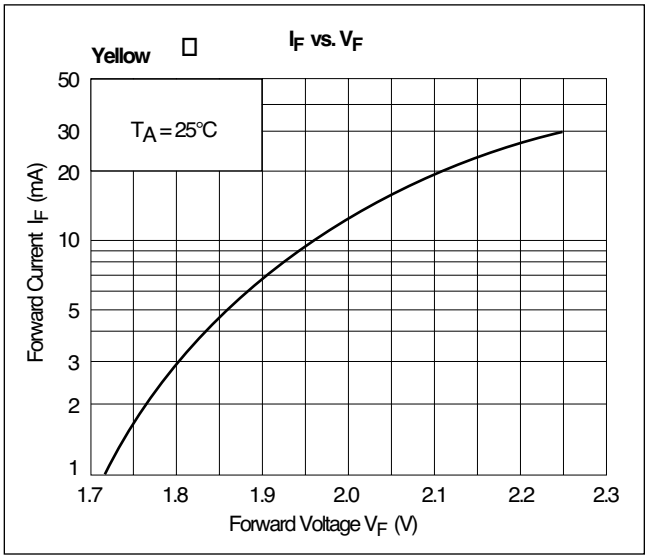
Characteristics	Symbol	Test Condition	Rating				Unit
			GaP (Green)		GaAsP/GaP (Yellow)		
			Typ.	Max.	Typ.	Max.	
Forward Voltage	V_F	I_F = 20mA	2.2	2.5	2.1	2.5	V
Reverse Current	I_R	V_R = 5 V	–	10	–	10	μA
Peak Emission Wavelength	λp	I_F = 20mA	565	–	590	–	nm
Spectral Line Half Width	λ	I_F = 20mA	30	–	35	–	nm

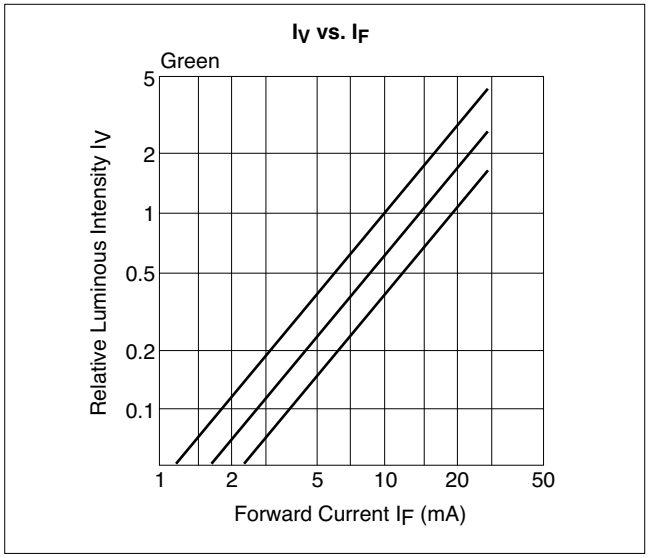
Precaution

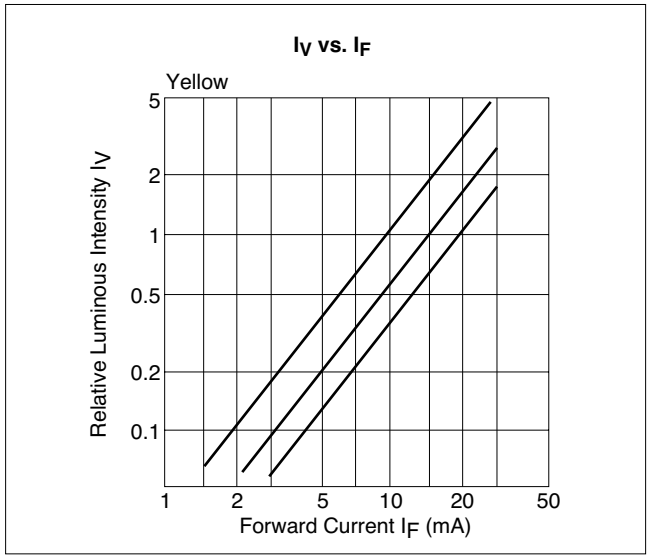
Please be careful of the following:

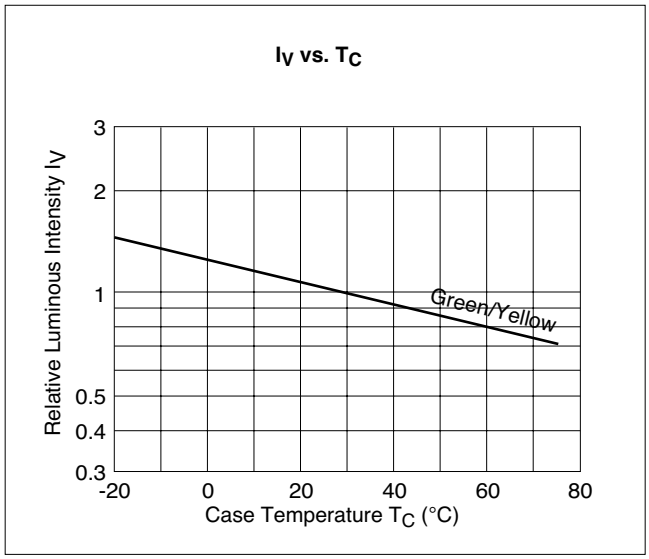
1. Soldering temperature: 260°C max; Soldering time: 3 sec. max; Soldering portion of lead: up to 2 mm from the body of the device.
2. The lead can be formed up to 5 mm from the body of the device without forming stress. Soldering should be performed after the lead forming.

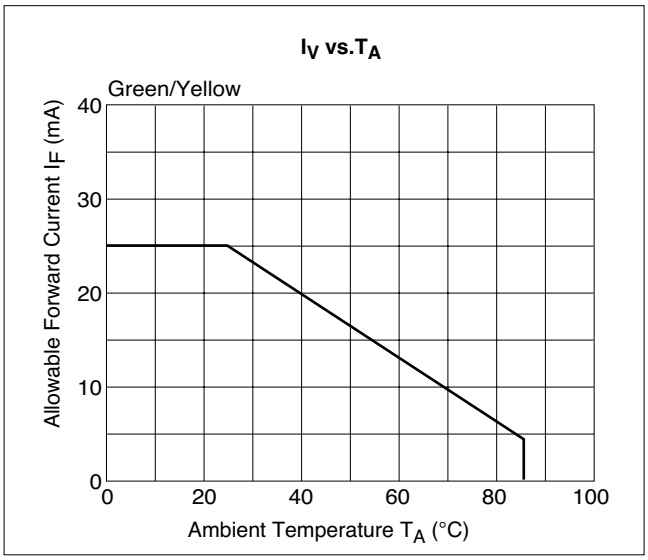

Green
I_F vs. V_F
T_A = 25°C
Forward Current I_F (mA)
50
30
20
10
5
3
2
1
1.7
1.8
1.9
2.0
2.1
2.2
2.3
Forward Voltage V_F (V)

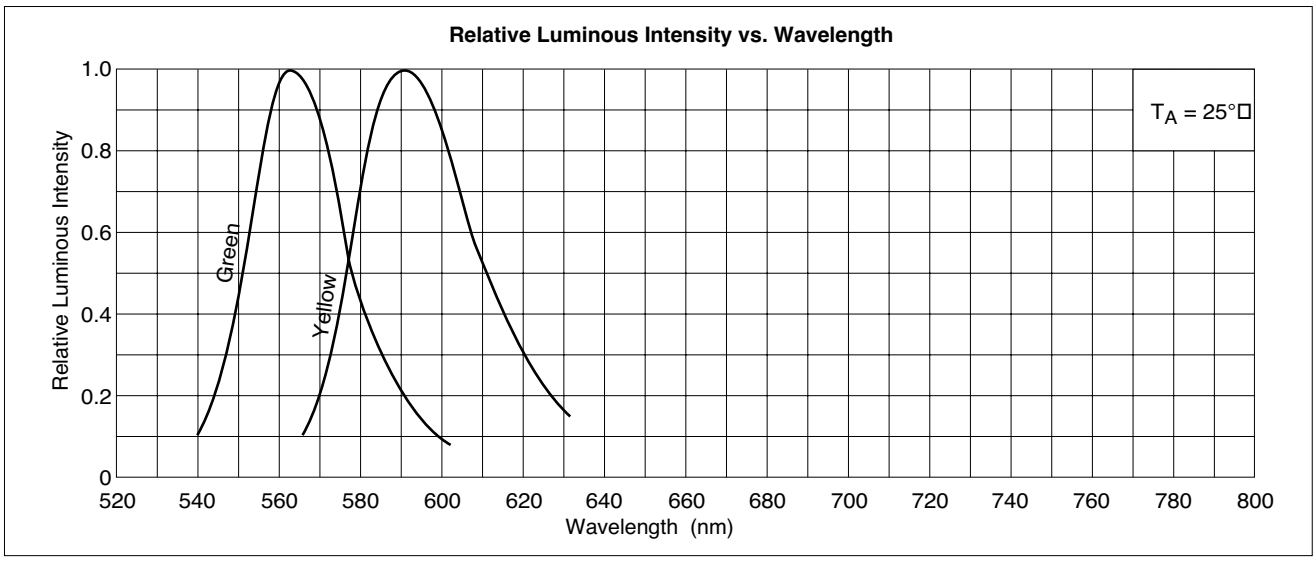

Yellow
I_F vs. V_F
T_A = 25°C
Forward Current I_F (mA)
50
30
20
10
5
3
2
1
1.7
1.8
1.9
2.0
2.1
2.2
2.3
Forward Voltage V_F (V)


I_V vs. I_F
Green
Relative Luminous Intensity I_V
5
2
1
0.5
0.2
0.1
1
2
5
10
20
50
Forward Current I_F (mA)


I_V vs. I_F
Yellow
Relative Luminous Intensity I_V
5
2
1
0.5
0.2
0.1
1
2
5
10
20
50
Forward Current I_F (mA)


I_V vs. T_C
Relative Luminous Intensity I_V
3
2
1
0.5
0.4
0.3
-20
0
20
40
60
80
Green/Yellow
Case Temperature T_C (°C)


I_V vs.T_A
Green/Yellow
Allowable Forward Current I_F (mA)
40
30
20
10
0
0
20
40
60
80
100
Ambient Temperature T_A (°C)


Relative Luminous Intensity vs. Wavelength
Relative Luminous Intensity
1.0
0.8
0.6
0.4
0.2
0
T_A = 25°C
Green
Yellow
520
540
560
580
600
620
640
660
680
700
720
740
760
780
800
Wavelength (nm)